REPEATER JOURNAL

CVRA-SouthEastern Repeater Association, Inc.

AUGUST
1982

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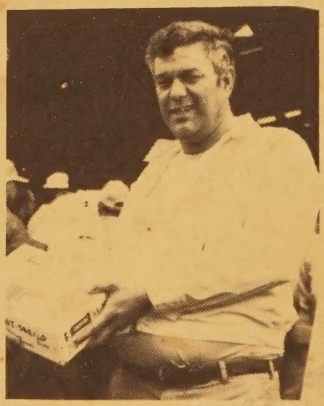

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(See Page 9 Inside)

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REPEATER JOURNAL

CVRA-SouthEastern Repeater Association, Inc.

AUGUST – OCTOBER 1982 "IN OUR 11th YEAR" VOLUME 11, NO. 3

ORGANIZED 1971

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Editorial Comment

Reflecting Five Years of Work...

Gosh time flies when you're having a good time!

I just realized that this issue of the REPEATER JOURNAL closes out my fifth year as Editor. Since my first JOURNAL in August of 1977, I've seen many wonderful things happen to this organization.

If you'll bear with me, let's reflect back a little and see what has happened since 1977.

My first Journal came off the press and was distributed to CVRA membership. I was proud! It was my first "baby". It didn't turn out quite what I had hoped for, but it was okay for starters. We were all "green" as far as publishing a magazine of this scope. We had hundreds of new ideas for improvement. Many were incorporated as each issue came off the presses, many are still to be incorporated.

Our early days were some of frustration, delight, delays, hard work, late deadlines and meetings. But somehow, we pulled it together and began to look like a publication by the next year.

(Continued On Page 61)

"Illegal" Simplex Operation Revisited...

It seems my editorial last issue concerning the operation by some Amateurs on "illegal" simplex frequencies opened several cans of worms, and maybe even a hornets nest or two.

My mail was 10 to 1 in favor of the editorial, which challenged everyone involved to get on the standard simplex frequencies instead of trying to find their favorite "oddball" frequency.

It is with the ones who took exception to the editorial I want to try to address this issue. By and large, most of the objection was the fact that someone was trying to tell them where they could or couldn't operate.

I would like to make one point perfectly clear . . . we CANNOT tell anyone where they must operate. An amateur is free to transmit and receive any place he pleases (within the legal limits of the band) and still be legal in the eyes of the FCC. But Amateur radio as we know it has been self policing since it began in the early 1900's. Courtesy, cooperation, coordination and communications

(Continued On Page 45)

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REPEATER JOURNAL

AUGUST – OCTOBER 1982

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SPECIAL NOTICE: Associate Membership deadlines are now on the 15th of the month preceding months of publication (Jan. 15, Apr. 15, July 15 and Oct. 15.) Persons joining or renewing must have their application into the Greensboro P.O. Box by those deadlines to receive the next upcoming Journal. Memberships received after deadline will not receive a REPEATER JOURNAL until the next issue comes out some 3 months later. Memberships received at hamfests will receive a current REPEATER JOURNAL as long as supplies are available.

The CVRA REPEATER JOURNAL is published quarterly, during the months of February, May, August and November of each year and mailed free to members of CVRA-Southeastern Repeater Association, Inc., a non-profit coordinating organization made up of repeater owners and users. Permission is granted for use of REPEATER JOURNAL material providing credit is given. The REPEATER JOURNAL will swap newsletters with other Repeater Councils and News organizations on request. The REPEATER JOURNAL press run is 4,300 copies with circulation in excess of 3,800 copies and is entered as Third Class Mail at the Post Office in Greensboro, N.C. All news and Newsletter exchanges should be mailed to the Editor and Publisher, Wayne C. Williams, K4MOB, 600 Lakedale Road, Colfax, N.C. 27235.

NOMINATING COMMITTEE TO BE NAMED AT SHELBY MEETING

President Don Morris, AB4J will name a nominating committee at the CVRA-SERA annual meeting in Shelby September 4th. The committee will be charged with the responsibility of coming up with a slate of Directors and Vice-Directors from each of the five Districts.

YOUR CHANCE

The Repeater Journal, in the interest of giving everyone possible a voice in our organization is offering you the chance to nominate someone from your District to be handed the nominating committee.

This nomination is of course unofficial and is planned only to assist the committee in finding good people to nominate.

When you choose someone to nominate, check with them first, and be sure they are willing to do the job if elected.

Remember the success of CVRA-SERA in your District depends on how good your Director and Vice-Director organize things and how well they work. Keep this in mind, when you are seeking a person.

The Official nominating "from the floor" ballot will appear in the November Journal and must be accepted by the nominating committee. This unofficial nominating is mainly to help the nominating committee find people in your District who might work well and are well liked.

SEND IN YOUR NOMINATION

If you wish to nominate someone, after checking with that person, submit their name, call, address, age, and a brief Biography. Mail your nomination to: Editor, The Repeater Journal, P.O. Box 235, Colfax, N.C. 27235. We'll take your nomination and pass it on to the committee at Shelby for you. Lets hear from some of you. Now's your chance to have a hand in forming our organization for 1983 and 1984. (Editor)

FINANCIAL REPORT AS OF JUNE 30, 1982

REVENUES		
Advertising		$ 2,912.75
Associate Membership		5,318.21
Full Membership dues		824.00
		$ 9,054.96
EXPENDITURES		
Journal mailing	$ 587.38	
Journal printing	6,100.00	
Miscellaneous expenses	12.63	
Directors meetings	377.44	
Office expenses	10.46	
Postage – other than Journal	249.32	
Printing – other than Journal	666.03	
Telephone	335.65	8,338.91
EXCESS OF REVENUES OVER EXPENDITURES		$ 716.05
Balances, January 1, 1982	$ 545.99	
Expenses advanced	3,468.92	4,014.91
CASH TO ACCOUNT FOR		$ 4,730.96
Less expenses advanced		700.00
CASH IN BANK		$ 4,030.96

Ray Adams, N4BAQ Treasurer

WOLFE NAMED DIRECTOR WV

Ted Wolfe, WD8KHL of Cabin Creek, West Virginia was named last month to complete the remaining term as Director of the West Virginia District, CVRA-SERA.

Mike Palmer, K8LG, who resigned as Director, due to pressing personal business, agreed to remain with the organization as a Vice-Director coordinating the Northern part of the District. Karl Morris, WB8GDY, will assume the Southern half of the District as a co-vice director.

The nominations were made during a meeting of the West Virginia Radio Council at Jackson's Mill over the July 4th weekend. The State Council works very closely with CVRA-SERA and the three officers also participate with the Radio Council.

President Don Morris confirmed the nominations and officially made the appointments shortly after being informed of the selection by local member repeater owners and the State Radio Council.

Wolfe is very active in the State Council and has been writing a West Virginia column in the Repeater Journal. He also publishes a weekly column in the local Cabin Creek newspaper. President Morris told the Journal that with the addition of Wolfe, the trio of leaders in West Virginia should work well for that District in coordination, and getting information out to repeater owners and users. He said they will be concentrating on getting more membership out of West Virginia for CVRA-SERA.

West Virginia Amateurs who need assistance with repeaters, coordination or any other information, may contact their Director or Vice Directors. The names, addresses and phone numbers are on the back cover of the Journal. (Editor)

TWENTY FIFTH ANNIVERSARY

SHELBY N. C. HAMFEST

The Grand-Daddy of them all.

SATURDAY PRIZE: THREE WINNERS! Three Santec ST-144 2-Meter Handheld Transceivers. Drawing 5pm Saturday

SUNDAY FIRST PRIZE: New! Kenwood TR-930 HF Transceiver Drawing beginning at 2 pm Sunday

SUNDAY SECOND PRIZE: TWO WINNERS! Two Santec ST-144 2-Meter Handheld Transceivers

ADVANCE REGISTRATION PRIZE: Santec ST-144 2-Mete Handheld Transceiver.

YOU DO NOT HAVE TO BE PRESENT TO WIN ANY OF THE MAIN PRIZES!

PLUS many, many more prizes.

Pre-Registration Form I would like to pre-register for

The Shelby Hamfest

Enclosed is my check for:

_____Hamfest Tickets @ $3.00 Each . . . . . $ _____

Age 12 and Under FREE All Tickets good for both days

Name _____ Call _____

Address _____

City _____ State _____ Zip _____

Mail To: Betty Switzer N4CBN

P.O. Box 2206 Shelby, N.C. 28150

Some of the motels in the area are listed below. They recommend that you call well in advance as their week-end business is good and reservations may be a problem.

SHELBY - Holiday Inn, Governors Inn, Hagers.

KINGS MOUNTAIN - Holiday Inn

GASTONIA - Mid-town, Howard Johnson, Holiday Inn, Scottish Inn

GAFFNEY - Holiday Inn

FOREST CITY - Gardo's, Isothermal, Goode's

LINCOLNTON - Town & Country

HICKORY - Howard Johnson, Holiday Inn, Mull's, Ramada Inn.

SEPTEMBER 4th and 5th

TO BE HELD AT CLEVELAND COUNTY FAIRGROUNDS LAST YEARS ATTENDANCE OVER 8,000 EXPECTING OVER 12,000 THIS YEAR

On US 74 Business on the east side of Shelby

- REGISTRATION:
  $4.00 At The Gate
  $3.00 for pre-registration-
  See Enclosed Form
- Free Parking space on the grounds, space for more than a thousand cars.
- Special Close-In parking for the disabled.
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  Bingo and Arts & Crafts for the Ladies
- Clean, Sanitary Rest Rooms
- 15 ACRES OF FLEA MARKET. Plenty space for all! TAILGATERS MUST REGISTER. Some undercover space available with rental of table. No overnight security.
- New Equipment Dealers as well as used dealers may have inside space with power available and overnight security at a nominal charge.
- Additional Inside Space Available This Year.
- Easy to locate as the site is on Business U.S. 74 and N.C. 180 on the East side of Shelby.
- Remember this, "NO member of the Shelby Amateur Radio Club or any member of their family is eligible to win a prize.
- AN ARRL SANCTIONED HAMFEST.

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FOR FURTHER INFORMATION - Contact
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146.28-88 147.945-345
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PEE DEE CLUB AND REPEATER CONTINUES TO GROW

—by Tommy Walker, NG4S

I am happy to report that the greater Pee Dee Radio Society is growing in numbers and influence in its coverage area.

The Society has operated in the black ever since its beginning. The membership has increased by sixty percent. New programs have been started, and I might add, they have been quite successful. The society has joined ARRL and CVRA Southeastern Repeater Association, Inc. as stated in our articles. A charter for non profit status has been received from the state, and we have also filed with the federal government a request for non profit status pending approval.

Wide area emergency services have been rendered to the public through reports of fires, accidents, and trees on the highway. In addition, weather conditions and warnings have been passed from one area to another. Operators in this area participated in a simulated emergency test between the National Weather Service, State Civil Preparedness and amateurs throughout South Carolina. During the drill, the Weather Service Office in Columbia lost all forms of commerical communications and the only contact with the office was through amateur radio. Our 145-745 repeater provided communications for 18 counties in South Carolina during the drill.

The Greater Pee Dee Two Meter Net was started October 19, 1981. This local net has connections with ARRL National Traffic Service. Liaison stations to Raleigh, Greenville, Charlotte and the Blue Ridge Net. The net has an average check in of 1000 and passes an average of 140 messages per month. One message that originated in Dillon, S. C. was passed to Knoxville and the reply sent back was received in four minutes.

A need to help amateurs up grade prompted a code practice session to be started. This service started March 9, 1982 and runs Monday through Thursday each week at 2000 EST. Very favorable comments have been received so far.

The repeater has operated just about trouble free for the past year. A total of under 24 hours down time for the entire year. An intermode problem plagues us and is being studied. We have built an audio board that will provide audio for a phase lock loop exciter and solid state amplifier. A 40 amp power supply was bought to drive the entire repeater. A 450 MHZ transmitter and receiver for linking was bought also. All of these items will go into service this summer. The only project that has been a failure is a beam antenna that was installed in the direction of Wilmington. The tower configuration and phasing proved to be detrimental to the present coverage area.

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LISTINGS ON CASSETTE

—by Bill Lenfesty, N4FQR

Two-Meter repeater listings taken from the February 1982 Repeater Journal are not available in recorded form. The price, which covers cost of 2 cassettes is only $2.02, which includes N.C. Sales Tax. The material which includes a chart of repeaters listed by Frequency distribution, and a chart of repeaters listed by states may be obtained by writing: METROLINA ASSN. FOR THE BLIND, 704 LOUISE AVE., CHARLOTTE, N.C. 28204, ATTN: KAROL BENSON.

This program is experimental. Material will probably be updated again either in November or February of next year. Future recordings may be distributed for half-price to those who purchase the February tapes.

Comments about this program are encouraged and may be mailed to: BILL LENFESTEY, N4FQR, 402 VICTORIA ST., GREENSBORO, N.C. 27401

Paid Advertisement

AN OPEN LETTER FROM WILLIAMS RADIO SALES

To Our Many Friends & Customers:

Williams Radio Sales just completed its 8th successful year in business, thanks to all of you.

My wife, Gerry, who works full time for the business, and I have always had a philosophy of treating our customers as we would want to be treated. It has worked. We try very hard to be sure our customer whether large or small, first time or repeat is totally satisfied with their purchase. When we sell someone a radio, we treat them in such a way that he knows we want him to come back next time he wants to make a major purchase.

Our idea for pricing has always been to give the customer at least half the markup, often times more than half, so we can make a nominal profit, yet provide the customer with a discount which is competitive and attractive.

In the future, we believe that Amateur business is going to succeed only on service, how the customer is treated, how he is respected, how much attention he receives before and after the sale. Williams Radio has always worked this way, and we will continue even more in the future.

The competition is keen, more dealers are springing up everywhere anxious for your equipment and accessory dollars. Pricing is becoming secondary, because everyone discounts prices. The only thing remaining is the service a business gives his customer before and after the sale. Williams is noted for followup. We never forgot who our customers are, and our customers remember how we treated them. They come back again and again. We wanted it that way, and it is happening.

Actual servicing of radios is available in many ways. We sell the SANTEC line of handhelds. (because we think they are the best) SANTEC has FACTORY TRAINED servicemen and a very extensive service center in Plano Texas with excellent reputation of quick, fast, and accurate service. We can't beat that, so we don't try, because a distributor repair facility is the best way you can go for repairs.

Williams Radio does other things like checking out equipment before we sell it, charging the batteries so a handheld can be used immediately, simple verbal instructions of how to use the equipment at time of purchase, unlimited hands-on demonstrations, plenty of time to decide on purchase, complete knowledge of our equipment we sell, larger accessory discounts on future purchases for our customers, stocking ALL accessories available for our radios, stocking hard-to-find amateur items and more.

So if you've never bought from Williams at a hamfest, just look for the busiest booth there. Behind the tables and equipment you'll find Gerry and I, smiling and ready to talk, demonstrate, let you try it out, or what ever it takes to help you decide for sure what you want to purchase. In other words we do not sell you a box from the factory and forget you.

Oh yes! Williams for 8 years has supported and attended MORE hamfests each year in this area than ANY OTHER dealer. Big or little, cold or hot, indoors or out, we attend most of them. We are now, and have been since 1975, the LARGEST advertiser in the REPEATER JOURNAL, issue after issue, year after year. We support clubs, help in obtaining equipment, help obtain hamfest prizes and offer special prices whenever we can.

Williams Radio is at your service, we want your business and we are willing to work for it. Come see us. We are NEVER too busy for you!

Again, thanks to you for our eight successful years,

Wayne & Gerry Williams
Williams Radio Sales of NC

Thanks to you, our valuable customers-
Williams Radio is now the 5th Largest Santec Dealer in the entire Nation!
We don't Plan to Stop Working Now . . .

THE GREAT 1982

REPEATER JOURNAL

SANTEC GIVE-A-WAY

FILL OUT THIS SPECIAL APPLICATION AND MAIL TO CVRA-SERA ASSOCIATE MEMBERSHIP, P.O. BOX 5655 GREENSBORO, N.C. 27403

CVRA-SERA ASSOCIATE MEMBERSHIP

YES - SIGN ME UP FOR THE AWARD WINNING REPEATER JOURNAL

Name _____ Date _____

Address _____ Call: _____

City: _____ Zip: _____

Phone: (____) _____ *Member of ARRL?* ____Yes ____No

Enclosed is: $_____ *SANTEC GIVE-AWAY*

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New _____ Renew _____

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RJ 8-82

CONTEST APPLICATION

YOU COULD WIN!

OUR SECOND

SANTEC ST-144

2-Meter Handheld

valued at $359.00

TO BE GIVEN AWAY

SEPT. 5, 1982

TO BECOME ELIGIBLE JOIN OR RENEW YOUR MEMBERSHIP IN

CVRA-SERA

FOR ONE YEAR

ONLY $3.00

The REPEATER JOURNAL wishes to thank the following organizations for their financial assistance in promoting this contest.

ENCOMM, INC. and Tom Gentry of Plano, Texas, Santec Distributor, for providing radios at a substantial savings.

For Donations toward Contest Expenses:

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DYNAMIC ENGRAVERS
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DOC'S COMMUNICATIONS
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HOMETRONICS
Charlotte, N. C.

WILLIAMS RADIO
Colfax, N. C.

G.I.S.M.O.
Rock Hill, S. C.

REPEATER JOURNAL GIVE-A-WAY RULES AND REGULATIONS

ELIGIBILITY: Any licensed Amateur who joins CVRA-Southeastern Repeater Association, or renews his membership for one year.

INELIGIBLE: Repeater Journal advertisers, CVRA-SERA officers, Vice-Directors, appointees and their assistants are not eligible for drawing.

DATES OF PROMOTION: Associate Membership applications must be dated AFTER February 1, 1982. Entries will be taken until the drawing at the Shelby Hamfest, Sunday, September 5, 1982. . NOTE: Applications received from the Charlotte Hamfest mailer will be accepted and are eligible.

DRAWINGS: Two drawings will be held. One Santec will be given away at the Manassas, Va. Hamfest on June 6. The 2nd Santec will be given away at the Shelby Hamfest, September 6, 1982. Applications submitted prior to the June 6th drawing will be eligible for BOTH drawings. Winner of the June 6 drawing will NOT be eligible for the September drawing. Applications received after the June 6 drawing will be eligible for the September 6 drawing.

MAIL-IN APPLICATIONS: All entries, in the form of CVRA-SERA Associate Membership applications must be submitted with $3.00 (cash or check) to: CVRA-SERA ASSOCIATE MEMBERSHIP, P.O. BOX 5655, GREENSBORO, N.C. 27403. DEADLINE for mailed entries is August 31, 1982. The Journal cannot be held responsible for late entries.

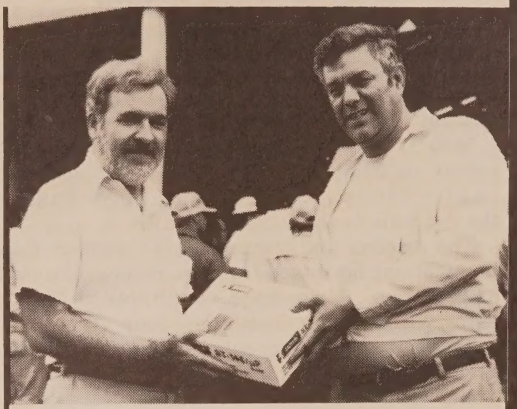
HAMFEST ENTRIES: Persons may submit applications in person at authorized CVRA-SERA booths at most hamfests in the area throughout the Summer.

APPLICATION FORMS: This special Associate Membership application or any facsimile may be used. Other applications from the Repeater Journal may also be used.

REMEMBER: You must JOIN or RENEW CVRA-SERA Associate Membership for at least one year between Feb. 1, 1982 and Sept. 6, 1982. The $3.00 membership fee must be submitted with application.

FULL MEMBERSHIP ELIGIBILITY: Although this is a contest involving mainly Associate Membership, the staff feels Full Members should also have a chance to win. Full Repeater Members who have already joined for 1982 may become eligible for the drawings by filling out an Associate Membership application with $3.00 and submitting it by mail. This extra membership will be placed in escrow under the applicants name to be used in one of two ways at the option of the applicant (1) As a 1983 Associate Membership, should the applicant not plan on Full Membership again in 1983. (2) As a down payment on 1983 Repeater Membership dues with $5.00 balance due for Full Repeater Membership on December 31, 1982. In other words, for a Full Member, present or future to be eligible for the drawings, an Associate Membership application with $3.00 must be submitted during the contest period. There can be NO exceptions.

MARDEN, AI4W WINS FIRST REPEATER JOURNAL SANTEC



GENE MARDEN, AI4W (right) is presented with the first Repeater Journal Santec prize by Mike Williams, KC4AO, Virginia Director, CVRA-SERA. The presentation was one of two being sponsored by the REPEATER JOURNAL as a membership drive promotion. The prize was awarded at the Manassas Va. hamfest on June 6th. (Photo by: Frank Goodell, WA4GFG)

—by Wayne C. Williams, Editor

James (Gene) Marden, AI4W of Manassas Park, Virginia was the winner of the first REPEATER JOURNAL Santec which was given away June 6th at the Manassas, Va. hamfest.

"This is wild", Gene told the Journal later, "I saw the CVRA-SERA booth and decided I was going to join."

He said after filling out the application, he noted the sign saying someone was going to win a Santec handheld that day, and thought that would make someone a nice prize. Of course later, he won it.

Gene said he was licensed first in 1971, dropped out of Amateur Radio for a few years, then got his license again and rose to the grade of Extra.

AI4W said his wife Linda, whom he married in 1975 is also a ham. He said he and N4APU will share the new radio.

Concerning CVRA-SERA, Gene comment-

(Continued on Page 64)

Contest and drawing is conducted by CVRA-Southeastern Repeater Association,

HIGHEST REPEATERS ON EAST COAST ON CLINGMANS PEAK

—by Ken Woodard, WA4BVW

(Editor's Note: The new 2-meter and 220 mhz repeaters on Clingman's Peak are creating quite a stir with their unbelievable coverage. We have asked Ken Woodard for a complete report of coverage and pictures for the November issue of the Journal.)

May 3, 1982, a 2-meter repeater was placed in service on Clingman's Peak at Mt. Mitchell, N.C. on a frequency of 59-19 (sub band). Power output of the machine is about 20-watts ERP.

The receiver and transmitter is Spectrum Communications borrowed from the Haywood County 87-27 group. A duplexer was installed June 22 along with a Lunar GASfet pre-amp.

This is the highest repeater in the Eastern United States at present topping out 6,607 feet elevation. The antenna will be raised to 6,670-feet probably by the time you read this. Power level will be raised to 100-watts ERP.

220 MHZ REPEATER ALSO

The 220 repeater on Mt. Mitchell is on 94-54. Present power level is 15-watts ERP. Antenna height is 6,670 ASL. The 220 machine has a PD-200 Stationmaster antenna with a DB Products 4-cavity duplexer. Presently we need 250-feet of 7/8-inch jacketed hardline with connectors to complete efficiency on the antenna system.

440 MHZ SYSTEM PLANNED

A 440 mhz. repeater is planned when funds and equipment are available. We received permission to install the Amateur repeaters at WMDT from their engineer WB4YWQ and the General Manager.

We are unable to give exact coverage of these repeaters at the moment. But base coverage already is extending well beyond 100 miles in most all directions.

FLORIDA 2-METER REPEATER MAP AVAILABLE FREE

Andy Clark, W4IYT, editor and publisher of Florida Skip, announces that Bill Tucker, W4FXE, has just completed the third edition of his Florida Two Meter FM Repeater Map. This Map shows all two meter FM repeaters at their exact location. In addition, all the repeaters are listed separately according to frequencies.

The map is printed on good quality bond paper 11 X 17 inches and is available for 25 cents plus a No. 10 business size stamped adressed envelope, from FLORIDA SKIP, P. O. Box 501, Miami Springs, FL 33166.

WEST ANTENNA HAS A LARGE VARIETY OF VHF DUCKS AVAILABLE IN BNC and 5/16 x 32 BASE

Tuff Ducks are of top quality, factory tuned and tested to assure minimum VSWR. Capable of handling 35-watts at 50 ohms. Moisture resistant with non-shorting flexibility-all weather use.

TYPE F CONNECTOR 2-METER TUFF DUCK FOR OLDER WILSON H/T

BNC Telescoping antennas. Other bases through special order.

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A REPEATER JOURNAL SPECIAL SECTION

FOREWARD FROM THE EDITOR

We wish to thank David Rose, WD4DJA for hours of work, days of interviews, and weeks of collecting old pictures to provide to the REPEATER JOURNAL. We cannot in space provided show you just what the Shelby Hamfest is made up of—you can only find out by attending one yourself.

People have speculated for years as to just what makes Shelby so successful. It's by far not the oldest hamfest in the area, it is not held in as good a location as some of the others . . . so what is it?

In a story about the hamfest several years ago, I described Shelby as exactly what you invision an old-time flea market and hamfest. I talked about the dust, the rain (which always comes), the hot sun, thousands of people, hundreds of tail-gaters, the smell of barbecue, hot dogs, hamburgers, charcoal fires, dozens of campers, outdoors and companionship. I think this is the secret of Shelby. You have the time, the space to meet friends you haven't seen for years. You can camp, eat, relax, sleep sell, swap, sweat, and do about anything else you want in the great outdoors. It's a circus, carnival, fair, electronics show, picnic, vacation and many other things rolled into one.

It's SHELBY, and there is no other like it. That's why I think it continues growing every year. —

—Wayne C. Williams, Editor

The Shelby Amateur Radio Club – 1957 and Growing

—by David Rose, WD4DJA

On Labor Day Weekend 1982, the Shelby Amateur Radio Club will celebrate its 25th anniversary Hamfest. As a relative newcomer to the club and ham radio (5 years), it all seems to come so easy. However, after doing some research, by interviewing the father of the Shelby Amateur Radio Club (SARC), I find that what we newcomers were handed on a silver platter, so to speak, didn't come so easy way back when. The success of the SARC and the Shelby Hamfest is hard to put ones finger on so I won't be giving away any of our secrets mainly because I don't just know what it is that puts Shelby above all the other hamfests in the South.

SHELBY HAMFEST — 25 YEARS AND STILL YOUNG

1957, A CLUB FORMED

Going back to 1957, Malcolm Spangler K4KUT got the idea that Shelby should have a radio club. He called the hams in the area and asked that they meet. Fourteen hams responded to the call. They were Malcolm Spangler–K4KUT, Floyd Willis–W4PZH, Marvin Dixon–W4EYC, Edwin Patterson–W4LTI, David Spangler–K4RGI, John Lutz–K4VXI, Nick Delatonas, Howard Ervin–W4OXV, J.B. Hamrick–K4QVO, Arlan Wilson–K4QVK, Charles Harry III–K4RER, Travis Wall–K4RGJ, George Washburn–K4QUU, Athos Rostan, Sr.–W4QDA. These are the hams that we have to thank for the SARC and the ever popular Shelby Hamfest. Floyd Willis was elected President, Marvin Dixon, VP, Malcolm Spangler, Sec/treas an office he held for twelve years.

THEN A HAMFEST WAS PLANNED

It was later decided that the Shelby Radio Club (the original Name) needed to have a hamfest. The Charlotte hams had had a hamfest before the Shelby Hams and 500 people attended. Rock Hill had also had a hamfest before Shelby. So Shelby was the third area hamfest and who would have known in 1957 that Shelby would grow so fast and become the major hamfest on the east coast. As

SHELBY 1957 WINNERS of the first prize awarded at the first Shelby Hamfest was Mr. and Mrs. M.E. West, W4SMN of Lenoir, N.C. Mrs. West had the winning ticket for the Hammerlund HQ-110 receiver and matching speaker.

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SHELBY

SHELBY RADIO CLUB members made the local newspaper in April of 1958 with this picture. Students from the local high school were visited by members of the club. A complete ham station was set up at the school for demonstration. Left to right: John Lutz, K4VXI; Dickie Craver, Lynn Lineberger; and Malcolm Spangler, K4KUT. As the picture was taken, Lynn was talking to Jake, KP4AMC in San Juan, Puerto Rico.

one of the dealers who set up shop last year in Shelby said, I've been to all the major hamfests in the U.S. including Dayton and Shelby is second to Dayton. We may not catch Dayton soon but we are in there trying.

The first Shelby Hamfest was held on, what else, Labor Day weekend on Sunday only at Bracketts Cedar Park where it continued to be held for the next 22 years. Three hundred people attended that first hamfest. Five of the members of the club donated $5.00 apiece ($25.00) and Tenny Freck of Freck Radio allowed the club credit until after the hamfest so they could buy the first prize which was a Hammerlund HQ-110 receiver. The OLD TIMERS (capitalized to show respect) tell me that a good receiver was the thing to have because any of them could homebrew a transmitter. The winner of that first prize was M.E. West. Actually Mrs. West held the winning ticket number 185, but you know who ended up using the HQ-110. As I said before the hamfest started as a one day affair and worked itself into a two day hamfest sort of by its self. I was

SHELBY HAMFEST grounds for over 20 years was Cedar Park. Every year it was growded with campers, vans, trucks, tents, people and equipment. Sometimes it got kind of hard to walk.

WILLIAMS RADIO OFFERS CASH REBATES AT SHELBY

IN ADDITION TO OUR NORMAL DISCOUNT PRICES – USE THESE BONUS COUPONS

COUPON
$30 CASH REBATE

On $500.00 or More Santec Radio and Accessories, purchase including Tokyo Hi-Power amplifiers.

Only one coupon per purchase, per day, per person accepted. Good At Shelby Hamfest Only.!

COUPON
$20 CASH REBATE

On $400.00 or More Santec Radio and Accessories purchase, including Tokyo Hi-Power amplifiers.

Only one coupon per purchase, per day, per person accepted. Good At Shelby Hamfest Only!

Watch for unadvertised Santec progressive discount Sale Saturday morning.

COUPON
$10 CASH REBATE

On Santec accessories, or Tokyo Hi-Power amplifier purchase of $200.00 or more.

Only one coupon per purchase, per day, per person accepted. Good At Shelby Hamfest Only!

COUPON
20% DISCOUNT

On our already low price for: Any complete mobile antenna, rubber duck, ¼-wave whip, handheld cigarette lighter charge cable, or W2AU balun.

Trim Out coupons and present with your purchase at Shelby Hamfest

COUPON
FREE MEMBERSHIP FOR CVRA-SERA

With purchase of any Santec handheld, or Tokyo Hi-Power Amplifier on Tuner, Williams Radio will buy you a one year new membership, or renew your membership. This coupon MAY BE USED IN CONJUNCTION WITH ANY OTHER COUPONS with qualifying purchase

COUPON
$10 REBATE ON OUR POSTED SALE PRICE FOR SANTEC ST-144

Cannot be applied to Progressive Discount Sale Early Saturday.

Only one coupon per purchase, per day, per person accepted. Good At Shelby Hamfest Only!

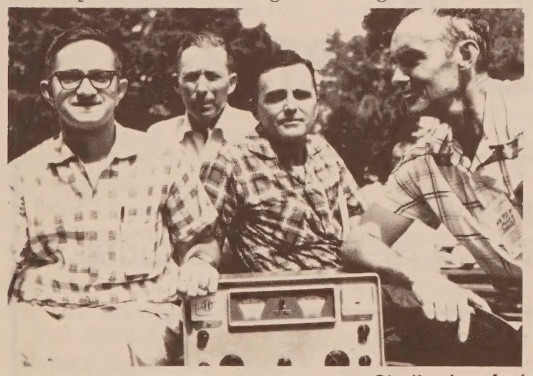
You're Gonna Like Our Service and Prices....

We're Gonna Make Sure... at Shelby Hamfest....

Your #1 SANTEC Dealer At Shelby Hamfest!! **We Stock It ALL For You!**

MEAL TICKETS were sold at Shelby for many years, never charges to come to the show. Here WA4TTS, Everette Hames (standing), and K4RER, Charlie Harry III, and WA4HTY, Mark Hames man the popular lunch registration table.

not able to find out when it was officically declared a two day hamfest. The Shelby Hamfest has always been held on Labor Day weekend and we certainly see no reason to rock the boat and tamper with success, so it will be held on Labor Day Weekend again in 1982, September 4 & 5. Shelby is officially a two day event, but those thousands of you who attend each year know that it starts on Tuesday or Wednesday and ends Sunday. Shelby has become sort of like motherhood, apple pie and baseball (or Chevrolet?). It's one of the only events where you hear something like this go on over the air either on low band or two meters. "WA4*** this is W4***, wonder if you are going to the ****** hamfest this weekend? This is WA4***, no, I won't be going to ****** this weekend but I'll see you in Shelby on Labor Day Weekend. This is W4***, you said that right O.M. If I only am able to make one hamfest a year it's got to be Shelby so I'll see you there." If you think I'm joking just listen in for a while.



K4KSU WINNER of another 1950's Shelby hamfest prize. Carroll Garrison of Warrenton, Va. poses with Floyd, W4PZH and other friends.

ALWAYS A FAMILY AFFAIR

From the beginning the Shelby Hamfest was a family affair and was always held in the great out of doors. We have never been rained out (knock on wood) but we have had rain in the last few years,

RST not necessarily a signal report. This photo taken at one of past Shelby hamfests shows, AA4R, Bill Parris, AA4S, Ron Bailey, and AA4T posing with a sign.

THE PRIZE BOARD always displayed varied and assorted prizes given by Shelby merchants to the club for Shelby Hamfest prizes. Blankets, tools, saws, chairs, lanterns, soldering guns, drills, clocks, record albums and much more were small prizes. Main prizes at Shelby grew larger and bigger every year.

SHELBY ANNIVERSARY

LUNCH LINE grows several hundred feet long at the Cedar Park pavillion. The Shelby Radio Club's famous Bar-B-Que packed them in every year. In center of the picture, registration was required only to get mailing addresses.

Congratulations To The

SHELBY AMATEUR RADIO CLUB

AND THEIR

25th ANNIVERSARY

SHELBY HAMFEST, SEPT. 4-5

ENCOMM, INC.

Distributors of Santec and Tokyo Hi-Power Products

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HIGHLIGHT OF SHELBY over the years was lunch. Thousands stood in line at noontime to get a big plateful of that famous Shelby Bar-B-Que. The covered picnic area stayed filled to capacity as people ate, enjoyed, talked and rested.

REPEATER JOURNAL SANTEC #2 TO BE GIVEN AWAY SEPT. 5

The 25th Anniversary Shelby Hamfest will be the scene of the second and final drawing for the REPEATER JOURNAL "Great 1982 Santec Give-A-Way."

The drawing will be held during a break of major prize drawings at Shelby, Sunday afternoon September 5.

Larry McLarin, WB4VJE, Associate Membership chairman said a CVRA-SERA booth will be manned at the hamfest for latecomers to fill out an application to be eligible for the drawing. The booth will close about 2:30 p.m. Sunday afternoon. All applications must be filled out by that time.

Mail-in applications must be in the mail no later than August 30 to be eligible for the final drawings. All applications turned in since February 1, are eligible for the final drawing, except the winner of the first drawing last June.

The REPEATER JOURNAL wishes to thank in advance the Shelby Amateur Radio Club for their pledged assistance and cooperation in promoting the booth and final drawing.

Congratulations to
SARC on Their
25th ANNIVERSARY

SHELBY HAMFEST

We are pleased to be providing through Encomm, Inc. the six Santec Prizes for the Shelby Hamfest.

WILLIAMS RADIO SALES

WAYNE C. WILLIAMS, K4MOB
600 LAKEDALE RD., COLFAX, N.C. 27235

IT WAS THE REAL THING even back the 60's, a nice ice cold coke was mighty welcome at the Shelby Hamfest on Labor Day weekend as temperatures usually broke the 90's. Here N4WH, Bill Bridges (with cup) waits for a refil, as W4BNG, George Patterson (right), WA4AJV, Carrel Hunnicut and K4UXI, John Lutz fill up.

just enough to cool it off. As one of our astute members observed, Somebody up There must like the Shelby Radio Club and we appreciate it very much. If there is one formula for our success it must be because it is out of doors with lots of room for the kids to roam and allow Mom and Dad some much needed freedom to do as they please (as far as walking the hamfest is concerned). We cater to the family group and will do even more this year for the family group. We hope to provide activities for th kids in the infield area supervised by older children of club members. It seems that the hamfest sort of runs itself until it officially opens on Saturday morning. When we get there on Friday afternoon to survey the crowd, the flea market area is already doing a booming business. I suspect some choice pieces of used goodies get bought up on Thursday and Friday so you may want to come a little early this year.

1979 WAS MOVING TIME

In 1979 the club was forced to move from the popular Brackets Cedar Park location to the Cleveland County Fairgrounds. We had outgrown the Cedar Park location some few years before this, but had no place to go. When the officers went to Cedar

SHELBY MOVED and the crowds moved with them. The Cleveland County Fairgrounds provided the club with acres more space to accomodate so many thousands of hams who attend each year. Over 10,000 came in 1981.

Park in 1979 to get things prepared they were informed that the lot across from the Park had been sold and we would not be allowed to use it for parking. That forced the club to look for another location. We decided to approach the manager of the Fair and attempt to rent the fairgrounds for our event. It was an ideal location because it provided what we had looked for for so long, adequate parking, adequate restrooms, enough flea market space and dealer space to accommodate our ever growing list of dealers who wanted to be a part of the Shelby Hamfest. The Fair has helped us out by, first-paving the lower area for the flea market, second-paving a road from the upper entrance to the lower area. This sort of laid out the flea market for us. It is hoped and we have reason to believe that the inside of the dealer area will be paved soon. We would like to have a new building, but who's complaining.

From the beginning, no member of the Shelby

SHELBY HAMFEST is a place where if you watch, you'll find friends you know by the dozens every year. Lots of people just walk around searching for that "eyeball QSO". No problem, plenty of room, plenty of time, plenty of people.

AT THE FAIRGROUNDS where the Shelby Amateur Radio Club moved the hamfest in 1979 cars, campers, tailgaters were lined up as far as the eye could see. One of the talkin operators on 28-88 was heard to remark that year, it was the first time he could remember in years telling a tailgater to come on in and find a place to set up . . . plenty of room. The new Dealer, manufacturer display building is to the right of the picture. General parking to the upper left.

Radio Club or any family member is eligible for any of the prizes given at the hamfest. As a matter of fact, we can't even buy a ticket. It was decided way back in 1957 that we would put on our hamfest for the hams who came to it and not for us. It seems to be appreciated by all the hams who attend.

Attendance at the Hamfest has been on a steady upswing. In 1960 2000 people attended and last year close to 10,000 lovely people were present at the 24th Shelby Hamfest. Every year has been a record and this year we expect to have more people than we ever though possible. Unlike some hamfests, we are still popular, talked about, and growing. We have the room to grow now that we have the fairgrounds as our site.

A CHANGE IN CLUB NAME

About two years ago it was noted that we are an amateur radio club and not just a radio club. So the name was changed to the Shelby Amateur Radio Club (SARC). For the first time in history we had a club logo, courtesy of N4BTN, decals for the car windows and a club patch for the hat or jacket. The club presently has 58 members and more waiting to come in as soon as their ticket comes back from the FCC. The SARC accepts no members from hamfest time until the first of the year. We own two repeaters. 146.28/88 and 147.945/345 both located on Whitaker Mountain in Blacksburg, S.C. Club members help the Shelby Jaycees each year providing communications for the Christmas Parade and the St. Patricks Day Marathon. Many of the club members participate in the A.R.R.L. field Day using the name the Chigger Mountain Scratchers. The SARC is one of the few 100% A.R.R.L. affiliated clubs in the two Carolinas. You will find a very popular net each Tuesday and Friday at 8:00pm on 146.28/88, run by members of the club and we invite all who can hit the machine to check in and we invite your comments also.

If this has made you wonder what is so special about the Shelby Hamfest, let me take this opportunity to invite you to our 25th anniversary Shelby Hamfest. It's only our silver anniversary, but those of us in the SARC think it's solid gold and we hope you will come and be a part of it.

INFORMAL ATMOSPHERE at the Fairgrounds. Girls man the fleamarket tables with the "OM's" go check on some good deals.

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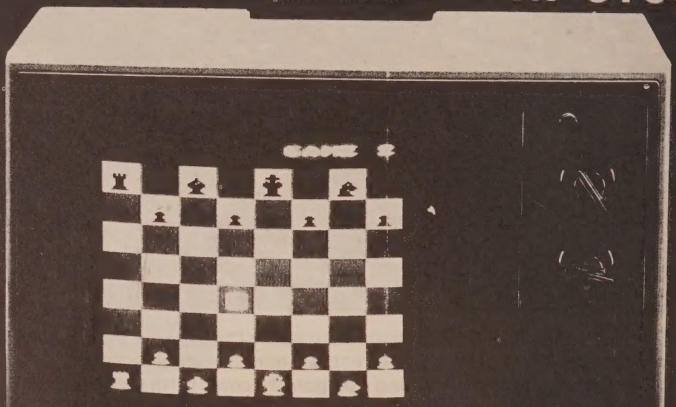

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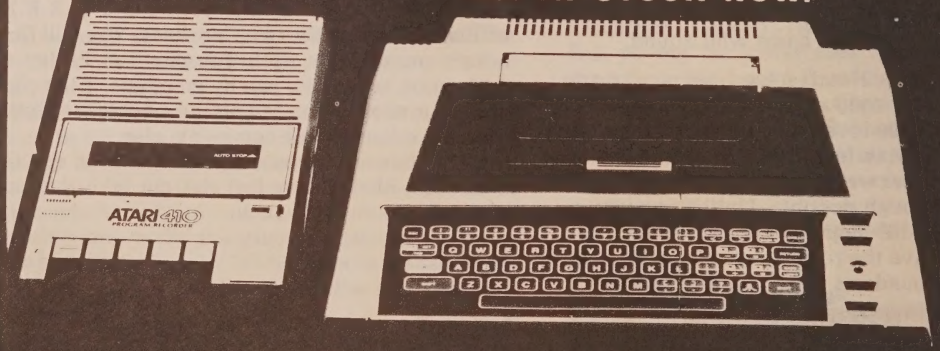

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FINALLY . . . A montage of people who have attended Shelby over the past years. Some you know, some are no longer with us. Some you will see this year. One thing for certain, more people have fond memories of Shelby than any show East of the Mississippi.

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AND

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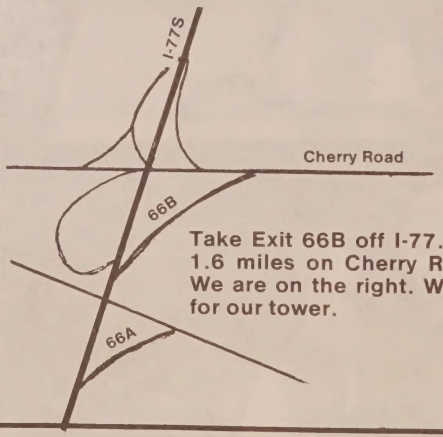
present . . .

ICOM DAY!

SPECIAL PRICES SATURDAY SEPT. 14



Take Exit 66B off I-77. Go. 1.6 miles on Cherry Road. We are on the right. Watch for our tower.

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Bring your mailer label, or this ad and register to . . . Win your choice of an IC-2AT, 3AT or 4AT. Main Prize drawing at 4:00 p.m. You need not be present to win.

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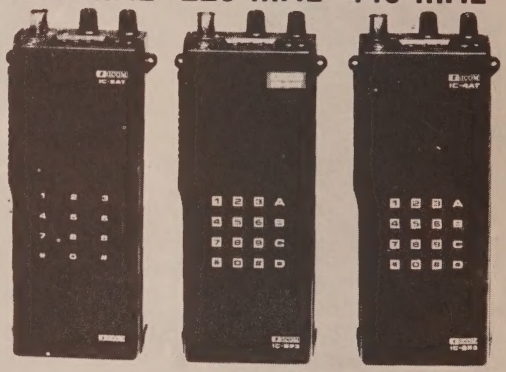

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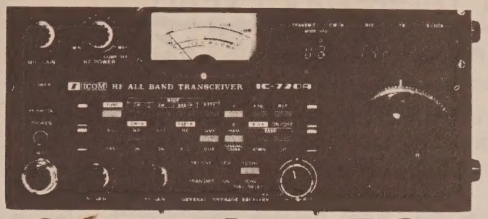

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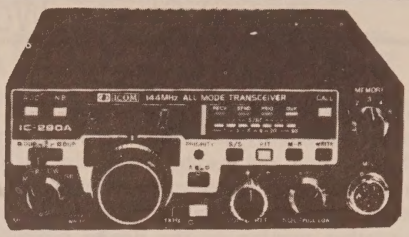

IC-290A

2 meter multimode mobile, 12 VDC, 10 W. out, FM, SSB, CW, Priority channel, scanning, CW sidetone, squelch on SSB.

Suggested Retail: $549.00
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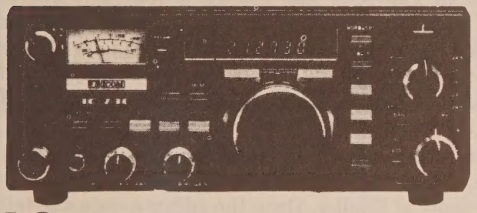

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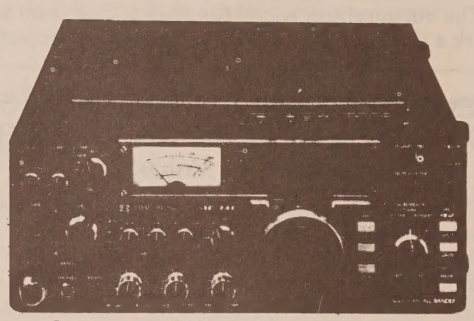
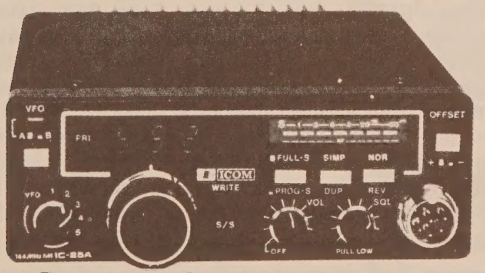


...the exciting new IC-740 HF transceiver



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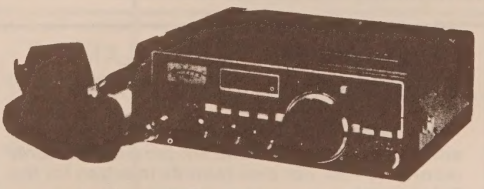

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SATURDAY, AUGUST 14

Would Shelby Work As A Three-Day Event?

—by Wayne C. Williams, Editor

The last few years the question has been asked often, would Shelby make a good 3-day hamfest? Maybe it would and maybe it wouldn't.

The attendance is swelling past the 10,000 mark. Dealer participation is making the SARC branch into another portion of the dealer building not previously used, and the flea market area spreads further across the fairgrounds each year.

Being on the Labor Day weekend, and being as successful as it is, Shelby could easily branch into a Monday add-on to its Saturday and Sunday show, since many people are off work for the Monday holiday.

The big question, would the Shelby club want to work a third day on such a big, demanding project, and if they did, would the people return for a Monday show.

Actually the Shelby Hamfest started as a Sunday affair many years ago. With the large area at the old Cedar Park, campers, venders, flea market people forced the show into a two-day deal mainly because they were holding their own hamfest on Saturday anyway. So the club decided to make it official.

Now campers and flea-market people are coming into the fairgrounds as early as Wednesday before the weekend show and the story goes, many deals are made and much horsetrading is going on through Thursday and Friday. Apparently everyone goes home Sunday mainly because the prizes are given away and dealers start picking up. Maybe the early arrivals on Thursday and Friday would rather come in Friday and stay through Monday, if the prizes were drawn Monday afternoon.

At the risk of getting murdered by some member of SARC, we welcome your comments about a 3-day show at Shelby. Drop the editor a note and tell us what we think. We will forward all the correspondence to the Shelby club. Who knows, maybe the public has some new ideas about Shelby. It will be hard to improve, but your ideas could certainly be considered.

FIELD DAY, SWAPFEST ACTIVITIES FOR WCARS II CLUB THIS SUMMER

—by S.A. Terry, W4WQK

The members of the (S.C.) Western Carolina Amateur Radio Society II participated in ARRL Field Day activities on June 26 & 27 at Fells Hunt Camp, near Greenwood, S.C.

The S.C. club will sponsor their second annual Greenwood Swapfest on September 18 at Piedmont Tech. College in Greenwood. They invite all Amateurs in the area to come and bring any amateur gear they would like to swap, sell, or trade. There are no fees, any dealers are encouraged to attend and exhibit their products. Only ham related equipment and parts may be displayed. Refreshment facilities are available.

RECORD PRIZE CHEST PLANNED FOR 25th ANNIVERSARY HAMFEST

The 1982 Shelby Hamfest, celebrating its 25th anniversary on Sept. 4 and 5th promises not only record crowds, but also records in prizes for the 2-day event.

Russ Switzer, prize chairman told the Journal that major prizes they plan to give away, have a list value of almost $4000.00. He said other prizes, small items and minor prizes may total $800 or more in value before they are through.

He also mentioned that the CVRA-SERA drawing to be held on Sunday afternoon will add another $350.00 to the value of goodies hams will take home that weekend. This makes the grand total approaching $5000.00.

NEW FCC FORM 610 AVAILABLE

The FCC has issued a new Form 610, dated December 1981 just recently. The new form, approved under new OMB guidelines is apparently identical to the old August 1980 form. It does contain an expiration date of 9-30-83.

There has been no word from the Commission that they will not accept the old August 1980 form, and since they both seem the same thing, there is apparently no reason for them not to accept the old forms.

CHATTANOOGA HAMFEST OCT. 23-24

The Chattanooga Hamfest and Tennessee State ARRL Convention will be held at the State Technical Community College on October 23-24. Prizes, forums, ladie's activities, food in cafeteria, indoor and outdoor flea markets. For information, write Hamfest Chattanooga, P.O. Box 3377, Chattanooga, Tn. 37404. Talkin is on 19-79.

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October 9, 1982

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Third Prize - Alliance HD 73 Rotor

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Travel, Motor Home and Camping Facilities available for Friday eve. Oct. 8th and Sat. Oct. 9th at Fraternal Order of Fire Fighters Camp Ground. Obtain camping directions on talk in frequencies - 16/76, 31/91 and 52.

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Pre-Registration Admission Tickets are $3.00 and Tickets at the Door will be $4.00. You do not have to be present to win.

For more information contact R. F. Sawinski, R.R. #2, Box 267A, Leicester, North Carolina 28748

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	LENOIR	NC
	COLUMBIA	SC
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2.54 /4.14	PICKENS	SC
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2.74 /4.34	GALAX	VA
2.86 /4.46	KNOXVILLE	TN
2.94 /4.54	MT MITCHELL	NC
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3.04 /4.64	RALEIGH	NC
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3.08 /4.68	CHARLOTTE	NC
3.10 /4.70	WINSTON-SALEM	NC
3.16 /4.76	SALISBURY	NC
	DAN/WHT OAK	VA
3.18 /4.78	CHATTANOOGA	TN
3.20 /4.80	CHRYVL/BKRS MT	NC
3.22 /4.82	GREENSBORO	NC
	ALEXANDRIA	VA
3.28 /4.88	WSTFLD/SAUTN MT	NC
3.30 /4.90	CHATTANOOGA	TN
3.34 /4.94	SYLVA	NC
	GREENEVILLE	TN
	LYNCHBURG	VA
3.36 /4.96	MORGANTON	NC

6 METERS

2.01 /3.01	HENDERSONVILLE	NC
	NEWPORT	NC
	CHATTANOOGA	TN
	MEMPHIS	TN
	ABINGTON	VA
	LEXNGTN/COLE MT	VA
	NORTN/HIGH KB	VA
2.05 /3.05	RALEIGH	NC
2.07 /3.07	SOUTH BOSTON	VA
2.13 /3.13	ALEXANDRIA	VA
	DANVILLE(DCC)	VA
2.15 /3.15	HIGH POINT	NC
	KNOXVILLE	TN
	LYNCHBURG	VA
2.35 /3.35	CARY	NC
2.47 /3.47	HICKORY	NC
2.525/2.525	HENDERSONVILLE	NC
	HILLSBOROUGH	NC
2.58 /2.48	FAIRFAX	VA
2.64 /3.64	KNOXVILLE	TN
2.67 /3.67	STATESVILLE	NC
2.76 /2.525	KNOXVILLE	TN
3.525/2.525	NORFOLK	VA

WEST VIRGINIA REPEATERS

TWO METERS

ALDERSON	WR8AKZ	146.13	146.73	N	
BECKLEY	WD8POF	144.77	145.37	N	LA
BECKLEY	K8BO	146.34	146.94	N	O
BKLY/FLAT TOP MT	K8BO	146.25	146.85	N	A
BLUEFIELD	W8MOP	144.89	145.49		A
BLUEFIELD	WD8OGY	146.415	147.015		PA
BOLT MT	WB8LVH	144.57	145.17	N	L
BRIDGEPORT	WR8ALC	147.705	147.105	N	EA
BRIDGEPORT	K8VNQ	147.72	147.12		EAL
BUCKHANNON	K8WYH	146.25	146.85	N	
CHARLESTON	WR8AER	146.22	146.82	N	
CHARLESTON	WB8CQV	146.28	146.88	N	
CLARKSBURG	WB8ZVS	146.22	146.82		A
COAL MTN	WB8KAD	146.12	146.72	N	A
COTTAGEVILLE	WR8AKV	146.31	146.91	N	
DUNBAR	K8VKI	147.72	147.12		
ELKINS	WR8AOH	146.04	146.64	N	
FAIRMONT	W8SP	146.31	146.91		
FRANKLIN	W3RUA	147.945	147.345		
GRAFTON	K8VNQ	147.975	147.375		L
HUNTINGTON	WB8EZR	146.04	146.64	N	
HUNTINGTON	WR8AGH	146.16	146.76	N	A
HUNTINGTON	KA8BKX	147.90	147.30	N	
KINGSTON/LICK KB	W8FG	144.87	145.47		
LEON	WB8NMT	147.78	147.18	N	
LOGAN	WA8ZLR	146.09	147.11	N	
LOGAN	WR8ADD	146.37	146.97	N	
MADISON	KA8JYR	146.06	147.06	N	TA
MARTINSBURG	WB8VUZ	147.855	147.255	N	
MCMECHEN	WA8ULB	146.31	146.91		
MCMECHEN	N8CFX	147.75	147.15		
MORGANTOWN	K8LG	144.83	145.43		
MORGANTOWN	WB8YZT	146.085	147.955	N	
MORGANTOWN	W8CUL	146.16	146.76		
MULLENS	WR8AKX	147.63	147.03	N	LA
NEW MARTINSVLLE	WR8ABY	146.34	146.94	N	
OAK HILL	W8GH	146.19	146.79		A
PARKERSBURG	WA8CRW	146.37	146.97		PA
PARKERSBURG	WD8AXY	147.96	147.36		
PARSONS	K8VNQ	144.73	145.33		PAL
PIE HORSE MT	N8APH	144.67	145.27	N	A
PRINCETON	WB8NRK	146.46	147.06		A
RAVENSWOOD	WA8USO	146.07	146.67		
RAVENSWOOD	WA8USO	146.10	146.70	N	R
RICHWOOD	K8VKB	146.34	146.94		
SCOTT DEPOT	K8SLI	147.87	147.27	N	A
SPENCER	WA8SAK	146.01	146.61	N	
ST ALBANS	WB8GDY	146.40	147.00		
TERRA ALTA	WB8PHU	147.60	147.00		PA
WEIRTON	KC8JN	146.34	146.94		
WELCH	WB8SXZ	144.85	145.45		
WHEELING	W8YFX	144.59	145.19	N	
WHEELING	W8JDH	146.16	146.76	N	

220 MHZ

HUNTINGTON	KA8BKX	222.54	224.14	N

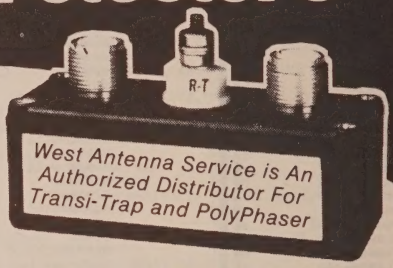
440 MHZ

KINGSTON/LICK KB	KA8EMX	449.80	444.80	N
MORGANTOWN	W8CUL	449.80	444.80	

TRANSI-TRAP™ Lightning & Static Protectors

Model LT

Don't hook-up your coax without one!



Models R-T, HV

Protects sensitive solid state components in your equipment from high-surge voltages produced by nearby lightning strikes, high wind, and static build-up. Even distant storm fronts are known to cause damaging surges without warning or time for grounding.

The replaceable Arc-Plug™ cartridge, which can fire thousands of times, utilizes a special ceramic gas-filled tube with precisely tailored firing speed and level, safely by-passing surges to ground. Standard air-gap devices are ineffective due to their erratic performance.

Models Available: (50 ohms. 200 W models are most sensitive, best for RCVRS and XCVR's. 2 kW models designed for amps. All models include Arc-Plug cartridge.)

with UHF Connectors

Model LT Protector, UHF-type "T" connector handles 200 W output thru 2 meters ... **$19.95**

Model R-T Protector, handles 200 W output thru 500 MHz ... **$29.95**

Model HV Protector, handles 2 kW output thru 500 MHz ... **$32.95**

Replacement Arc-Plug Cartridges for Models LT **$9.95**, R-T **$9.95**, HV **$12.95**

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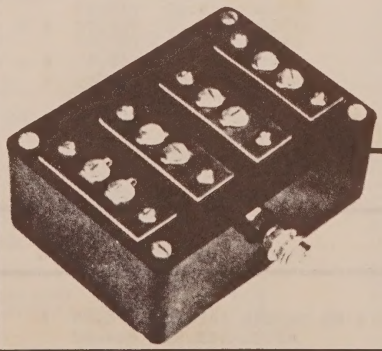
PolyPhaser Corporation



Ruggedly Built, designed to protect the housing motor and remote control box of your rotor system. Designed to protect up to eight control lines.
MODEL IS-RCT $44.95
For coax line protection, we can get you the IS-75F for 75 ohm cable with Type F connectors. Only $37.95

For twinlead, 300 ohm cable, we suggest the IS-300T with screw terminals for protection. Only $36.95

We also have Line PolyPhaser arrestors with UHF and N type connectors for Commercial applications. Contact us for more information.

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NORTH CAROLINA REPEATERS

TWO METERS

AHOSKIE	WB4YNF	144.53	145.13		A
AHOSKIE	WA4ZGQ	146.31	146.91		PA
ALBEMARLE	WA4LBT	146.385	146.985		
ANDSN MT/NEWTON	WD4LCF	144.85	145.45	N	
ASHEBORO	WD4AIB	147.855	147.255		PAI
ASHEVILLE	WA4QCO	146.235	146.835		A
ASHVL/MT PISGAH	WA4BVW	146.16	146.76		
ASHVL/SPIVEY MT	W4MOE	146.31	146.91		A
BENSON	WR4ARL	147.87	147.27	N	PA
BOONE	WA4KDB	147.96	147.36		
BREVARD	N4DJB	147.735	147.135		
BURGAW	K4LZY	146.34	146.94		
BURLINGTON	WR4AKY	146.07	146.67	N	
BURLINGTON	W4VGZ	146.475	147.075	N	EA
BURLINGTON	WA4HBQ	147.675	147.075	N	EA
BURNSVILLE	WA4LLR	147.975	147.375		A
CARTHAGE	W4NIW	147.84	147.24		EA
CHARLOTTE	KA4HNP	144.57	145.17		
CHARLOTTE	W4BFB	144.63	145.23		
CHARLOTTE	WD4JWO	144.69	145.29		
CHARLOTTE	WB4HTR	144.75	145.35	N	
CHARLOTTE	WR4AEU	146.34	146.94		
CHARLOTTE	WR4ALO	146.46	147.06	N	A
CHARLOTTE	WB4KPF	147.615	147.015		PA
CHRYVL/BKRS MT	WB4UDS	144.55	145.15		
CONCORD/KANNAP.	K4CEB	146.055	146.655		A
DILLSBORO	WB4NSS	146.385	146.985		
DUNN	WB4FXM	146.10	146.70		
DURHAM	WA4WTX	146.22	146.82		
DURHAM	WA4BFT	146.34	146.94	N	A
EDEN	WA4ACP	147.84	147.24	N	
EDEN/STONEVILLE	WA4QBG	147.99	147.39		
ELIZABETH CITY	WA4VTX	146.46	147.06	N	A
ELIZABETHTOWN	N4DHW	146.175	146.775	N	
ERWIN	WR4ALY	146.43	147.03	N	
FAYETTEVILLE	N4NG	144.83	145.43	N	C
FAYETTEVILLE	WR4ANN	146.31	146.91		A
FAYETTEVILLE	W4LPL	147.93	147.33		
FISHER PEAK	WD4MDP	144.73	145.33	N	
FOREST CITY	W4TMT	146.07	146.67	N	A
FOREST CITY	WA4BKU	147.84	147.24	N	
FRANKLIN	WB4NUS	144.89	145.49	N	
FRANKLIN	N4AC	146.14	146.74	N	
FRANKLIN	WB4YAO	147.84	147.24		
GAST/SPCR MT	W4REW	147.72	147.12	N	A
GASTONIA	K4ZFD	146.205	146.805	N	L
GASTONIA	WD4KGM	147.87	147.27	N	
GOLDSBORO	K4CYP	146.25	146.85		A
GREENSBORO	N4AZM	144.65	145.25		
GREENSBORO	K4SNI	146.01	146.61		A
GREENSBORO	WR4AOD	146.16	146.76		
GREENSBORO	WD4IPZ	147.63	147.03		PA
GREENSBORO	WR4AUA	147.765	147.165	N	
GREENSBORO	WR4ANL	147.81	147.21	N	
GREENVILLE	N4GVK	144.75	145.35		
GREENVILLE	W4AMC	147.96	147.36		
GREENVL/ESTN NC	W4GDF	147.69	147.09		
GRIFTON	W4NBR	146.085	146.685		
GRIFTON	WR4ABP	146.16	146.76		O
HENDERSONVILLE	WB4YAO	146.04	146.64		L
HICKORY/BRT. MT	WR4ACM	146.25	146.85	N	
HIGH POINT	N4XO	144.51	145.11	N	C
HIGH POINT	KA4DHP	146.265	146.865		PA
HIGH POINT	K4AZA	146.40	147.00		LA
HIGH POINT	K4AZA	147.60	147.00		LA
HILLSBOROUGH	WA4WTX	147.825	147.225		A
HILLSVILLE	WD4BTS	147.975	147.375	N	A
HNDSNVL/PINCK MT	WA4KNI	144.67	145.27		
HOPE MILLS	WB4TRW	146.445	147.045	N	
JACKSONVILLE	WD4FVO	146.40	147.00		PA
JACKSONVILLE	WR4ATW	147.90	147.30	N	
KINGS MTN	WB4GXY	146.37	146.97	N	
LAKE TOXAWAY	WR4AGH	147.795	147.195	N	
LAURINBURG	K4QWK	146.025	146.625		
LENOIR	KN4K	147.93	147.33		
LEVEL CROSS/GBO	K4VUW	146.19	146.79		
LEWISVILLE	N4GGK	144.61	145.21	N	
LEXINGTON	K4IZM	146.31	146.91		PA
LILLINGTON	WA4FKI	144.87	145.47	N	
LINCOLNTON	WD4PLY	144.85	145.45	N	
LUMBERTON	KD4PI	147.855	147.255	N	RC
LUMBERTON	WR4BDQ	147.96	147.36		
MACO	WA4LED	147.66	147.06		
MANTEO	W4PCN	146.34	146.94		PA
MARION	WB4UCF	147.855	147.255	N	P
MARION/OLD FORT	KA4DEC	147.705	147.105		
MONROE	K4BGU	147.30	147.90	N	
MONROE	K4JCK	147.705	147.105		A
MORGANTON	K4RP	147.75	147.15		
MT AIRY	WA4ZAS	146.37	146.97		EA
MT AIRY	WA4CQK	147.78	147.18	N	
MT MITCHELL	WA4BVW	144.59	145.19		
N. WILKESBORO	K4ITL	144.77	145.37		L
NEW BERN	WD4JMS	146.01	146.61		A
NEWPORT	K4GRW	144.85	145.45		A
NEWTON	N4AWV	144.83	145.43	N	P
OXFORD	WA4JCS	147.90	147.30		A
RALEIGH	N4BEA	144.67	145.27		A
RALEIGH	N4BXF	144.89	145.49		PA
RALEIGH	W4DW	146.04	146.64		A
RALEIGH	K4BWC	146.13	146.73		A
RALEIGH	K4ITL	146.28	146.88		
RALEIGH	K4ITL	147.75	147.15		PA
REIDSVILLE	K4YFT	146.25	146.85		
ROANOKE RAPIDS	K4PUV	147.63	147.03		
ROARING GAP	WB4PZA	146.22	146.82		
ROBBINSVILLE	WB4ZQB	146.445	147.045	N	L
ROCKINGHAM	WA4ULA	146.355	146.955		
ROCKY MOUNT	WB4WAA	147.72	147.12		A
SALISBURY	W4EXU	146.13	146.73		
SANFORD	WB4EJJ	147.78	147.18		A
SHELBY	WD4DJA	146.28	146.88		
SHELBY	WD4DJA	147.945	147.345		A
SIMPSONVILLE	WA4PPV	144.79	145.39	N	P
SMITHFIELD	KD4JQ	146.37	146.97		A
SMITHFIELD	W4MKL	147.99	147.39		PA
SPRING LAKE	WR4BCA	146.115	146.715	N	
STATESVILLE	AI4O	146.085	146.685		PA
TUCKASEGEE	W8OMV	147.90	147.30	N	
UNION CROSS	WA4RBW	147.915	147.315		A
WADESBORO	W4USH	146.235	146.835	N	
WASHINGTON	WB4GMI	146.205	146.805	N	
WAYNESVILLE	N4SM	147.87	147.27		PA
WEST JEFFERSON	WD4JWO	144.69	145.29	N	C
WILLIAMSTON	WA4TKJ	144.81	145.41	N	
WILMINGTON	N4WI	146.13	146.73		
WILMINGTON	WB4UNG	146.22	146.82		O
WILSON	WB4THL	144.83	145.43	N	C
WIN-SAL/SAUTN MT	WB4KQN	144.79	145.39		L
WINSTON-SALEM	WA4GIC	146.04	146.64		A

220 MHZ

ASHEVILLE	NC4N	223.00	224.60		
ASHVL/MT PISGAH	WA4BVW	222.34	223.94		
CHARLOTTE	WB4KPF	223.08	224.68		LA

ARRL VIRGINIA STATE CONVENTION
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CHRYVL/BKRS MT	WB4UDS	223.20	224.80	N	
FAYETTEVILLE	W4EHF	222.42	224.02		
GREENSBORO	KZ4O	223.22	224.82	N	RL
HICKORY	WR4ACM	222.42	224.02	N	
HIGH POINT	K4AZA	222.32	223.92		LA
HILLSBOROUGH	WA4WTX	222.34	223.94		L
LINWOOD	KA4HUV	222.38	223.98	N	
LOCUST	WA4ZIA	222.40	224.00		
MORGANTON	WB4PML	223.36	224.96		
MT MITCHELL	WA4BVW	222.94	224.54		
RALEIGH	WA4PEN	223.04	224.64	N	
ROCKY MOUNT	KA4DAP	222.36	223.96	N	
SALISBURY	W4EXU	223.16	224.76		
STATESVILLE	WA4PVI	222.70	224.30	N	
SYLVA	KA4V	223.34	224.94	N	
WINSTON-SALEM	WB4UGW	222.44	224.04	N	C
WINSTON-SALEM	WA4YHH	223.04	224.64	N	
WINSTON-SALEM	WA4GIC	223.10	224.70		R
WSTFLD/SAUTN MT	W4RXG	223.28	224.88		

440 MHZ

ASHVL/MT PISGAH	WA4COS	449.90	444.90	N	
CHARLOTTE	WR4ALO	449.85	444.85	N	
FAYETTEVILLE	N4NG	448.30	443.30	N	C
GREENSBORO	WB4HZI	449.90	444.90	N	
GREENVILLE	AI4J	449.80	444.80	N	C
HIGH POINT	K4AZA	447.90	442.90		L
HILLSBOROUGH	WA4WTX	449.10	444.10		
LOCUST	WA4LBT	448.70	443.70		
LYNWOOD	KA4HEV	449.45	444.45	N	P
MT MITCHELL	WA4BVW	448.65	443.65		C
SALISBURY	W4EXU	449.70	444.70		C

SIX METERS

CARY	WR4AVP	52.35	53.35	N	
HENDERSONVILLE	WB4YAO	52.01	53.01		
HENDERSONVILLE	WB4YAO	52.525	52.525		RB
HICKORY	WR4ACM	52.47	53.47	N	
HIGH POINT	K4AZA	52.15	53.15	N	L
HILLSBOROUGH	WA4WTX	52.525	52.525		RB
NEWPORT	K4GRW	52.01	53.01		P
RALEIGH	K4ITL	52.05	53.05	N	
STATESVILLE	WA4WRS	52.67	53.67	N	

TEN METERS

NEWPORT	K4GRW	29.56	29.66		P

TENNESSEE REPEATERS

ALAMO	WB4EDS	147.135	147.735	N	
ALTAMONT	WR4AWN	146.37	146.97	N	
ATHENS	WB4GRC	144.71	145.31	N	C
BENTON	K4SIR	144.85	145.45	N	
BLONTVILLE	WA4KMG	147.60	147.00		PA
BRISTOL	K4ILW	146.07	146.67		A
BRISTOL	W4SZP	146.28	146.88		A
BRISTOL/HLSTN MT	WR4ADO	146.16	146.76		
BROWNSVILLE	WA4ABU	146.655	146.055	N	A
CENTERVILLE	WB4PZB	147.915	147.315	N	
CHATTANOOGA	K4CMY	144.53	145.13		
CHATTANOOGA	KB4TZ	144.79	145.39		A
CHATTANOOGA	K4CMY	146.01	146.61		
CHATTANOOGA	W4DSK	146.19	146.79		A
CHATTANOOGA	WA4ZOK	147.60	147.00		PA
CLARKSVILLE	WA4TEQ	147.60	147.00	N	
CLEVELAND	WR4AQV	147.78	147.18	N	
COLUMBIA	WR4AIX	147.72	147.12	N	
COOKEVILLE	WR4ANW	146.07	146.67	N	
COOKEVILLE	N4WS	147.81	147.21		
COVE MTN/GTLBG	WA4KJH	146.25	146.85		
COVINGTON	WA4VXW	147.93	147.33	N	
CROSSVILLE	WR4AKQ	146.04	146.64	N	
CROSSVILLE	WR4BEL	147.93	147.33	N	
DAYTON/RHEA CTY	K4ZLA	147.99	147.39	N	
DECATUR-PONE KB	W4RJC	144.67	145.27		
DYERSBURG	AA4HF	146.145	146.745	N	
FAYETTEVILLE	KO4G	146.865	146.265	N	C
FAYETTEVILLE	WR4BAQ	147.63	147.03	N	
FISHERVILLE	N4DRL	144.65	145.25	N	A
GALLATIN	WB4DLQ	147.84	147.24	N	
GALLATIN	WA4YQC	147.87	147.27	N	
GREENEVILLE	WB4TUO	144.81	145.41	N	
GREENEVILLE	W4ANB	146.10	146.70	N	
GREENEVILLE	WA4LYF	147.66	147.06		A
HENDERSONVILLE	WB4ZCK	146.915	147.315	N	RB
HENDERSONVILLE	N4WF	147.63	147.03	N	
HOHENWALD	WB4LHV	147.765	147.165	N	
HORNBEAK	WA4OXK	146.865	146.265	N	
JACKSON	W4WKZ	147.81	147.21	N	
JASPER	KA4LGN	144.59	145.19	N	
JOHNSON CITY	WB4IKB	146.19	146.79		
JOHNSON CITY	KE4FH	147.87	147.27		A
JONESBORO	WB4SQC	147.99	147.39		PA
KNGSPT/BAYS MT	W4TRC	146.37	146.97		A
KNOXVILLE	WB4JSD	144.51	145.11		R
KNOXVILLE	WA4KAV	144.55	145.15		
KNOXVILLE	K4KFD	144.61	145.21	N	A
KNOXVILLE	WA4TEM	144.73	145.33		A
KNOXVILLE	WA4GZE	144.75	145.37		
KNOXVILLE	WB4GBI	144.87	145.47		
KNOXVILLE	WB4IOB	146.13	146.73		
KNOXVILLE	K4HXD	146.34	146.94		
KNOXVILLE	K4HXD	147.675	147.075		A
KNOXVILLE	W4BBB	147.90	147.30		
KNOXVILLE	WB4HAP	147.96	147.36		
LAFOLLETTE	W4TZG	146.07	146.67		
LAKE CITY	WB4OAH	146.22	146.82	N	
LEBANON	WR4BBM	146.13	146.73	N	
LEXINGTON	WB4LGH	146.43	147.03	N	
LOUDON CTY.	WD4HQI	144.57	145.17		
MADISON	WB4NTM	146.04	146.64	N	
MANCHESTER	WR4ACI	146.10	146.70		A
MARTIN	WA4ZQX	146.625	146.025	N	
MCMINVL/SHT MT	W4KKO	144.89	145.49		
MEDINA	K4BEZ	146.37	146.97	N	AL
MEMPHIS	WR4AZK	144.89	145.49		
MEMPHIS	WB4MQD	145.33	PACKET	N	
MEMPHIS	W4GYS	146.04	146.64	N	
MEMPHIS	WR4AOG	146.10	146.70	N	R
MEMPHIS	WR4AGR	146.13	146.73	N	
MEMPHIS	WR4ABS	146.19	147.51	N	
MEMPHIS	WR4AHO	146.22	146.82	N	
MEMPHIS	WR4AZK	146.25	146.85		A
MEMPHIS	WA4ETE	146.28	146.88	N	A
MEMPHIS	K4BN	146.34	146.94	N	A
MEMPHIS	K4FZJ	146.40	147.00	N	
MEMPHIS	WR4AXF	146.46	147.06	N	
MEMPHIS	WR4BCU	147.63	147.03	N	
MEMPHIS	WR4AWT	147.69	147.09	N	
MEMPHIS	WA4ETE	147.72	147.12	N	AT
MEMPHIS	WR5AII	147.75	147.15	N	
MEMPHIS	WR4AZK	147.78	147.18		
MEMPHIS	WD4APK	147.84	147.24	N	
MEMPHIS	WR4AZC	147.87	147.27	N	
MEMPHIS	WR4ASF	147.90	147.30	N	
MEMPHIS	WR4ATA	147.96	147.36	N	
MEMPHIS	WR4ASR	147.99	147.39	N	
MIDDLEBRO(KY/TN)	W4PPM	144.63	145.23	N	

"HAVING RIG PROBLEMS ?"

THEN, TAKE A MOMENT OF YOUR TIME TO CONSIDER THIS . . .

1. Has The Warranty Run Out on Your Rig?
2. Are you Prepared for it to Spend a Long While at the Manufacturers Shop?
3. Does the Prospect of Expensive Postage and Service Charges Upset You?

IF SO, CONSIDER THE ALTERNATIVES

EXPERT SERVICE WITH

BI-COMM

TEN-TEC WARRANTY SERVICE!

Expert Service offered On VHF , HF, AM, FM & SSB Gear Including DRAKE, COLLINS TEN-TEC, SWAN, WILSON, ICOM, YAESU, KENWOOD, STANDARD, HEATH AND OTHERS

DAILY 5 PM to 10 PM
SAT 9 AM to 5 PM

- **MINIMAL TURNAROUND TIME**
- **COMPETITIVE RATES**
- **SATISFACTION ASSURED**

BI-COMM

BINO COMMUNICATIONS, inc

K4CJZ CHUCK
WA4IHA SUE
KA4HIC KEN

2401 DEVEROW PLACE
GREENSBORO, N.C. 27407
PHONE (919) 292-8052

MORRISTOWN	WB4OAH	147.63	147.03	N	
MORRISTOWN	WB4OAH	147.825	147.225	N	
MOUNTAIN CITY	WD4OMO	144.87	145.47	N	
MURFREESBORO	WB4LHO	144.57	145.17	N	
NASHVILLE	WB4ZSA	144.83	145.43		C
NASHVILLE	WA4PCD	146.01	146.61	N	
NASHVILLE	WB4NTM	146.07	146.67	N	
NASHVILLE	WB4QES	146.16	146.76	N	
NASHVILLE	WR4AFA	146.19	146.79		
NASHVILLE	N4TK	146.25	146.85	N	
NASHVILLE	WB4QES	146.28	146.88	N	
NASHVILLE	WA4PCD	146.34	146.94	N	
NASHVILLE	AF4K	147.615	147.015	N	
NASHVILLE	WB4JVP	147.75	147.15	N	
NASHVILLE	WA4PCD	147.78	147.18	N	
NASHVILLE	WB4ZSA	147.90	147.30		PA
NASHVILLE	WB4NTM	147.96	147.36	N	
NASHVILLE	WB4JTN	147.975	147.375	N	
NASHVILLE	WB4DLQ	147.99	147.39	N	
OAK RIDGE	W4SKH	146.28	146.88		
OAK RIDGE	W4SKH	146.37	146.97		A
OAK RIDGE	K4EAJ	147.72	147.12		L
OAK RIDGE	K4EAJ	147.75	147.15		R
PARIS	K4KLX	147.96	147.36	N	
PIKEVILLE(KY)	KA4BQH	144.59	145.19		
PIKEVILLE(KY)	N4ETG	146.19	146.79		
PULASKI	W4JVO	146.715	146.115	N	
SAVANNAH	WA4TPA	144.77	145.37	N	
SAVANNAH	WB4DQU	146.31	146.91	N	
SAVANNAH	WA4TPA	147.87	147.27	N	
SHELBYVILLE	WR4AQM	147.66	147.06	N	
SHORT MT/SMTHVL	W4YXA	146.31	146.91		
SPARTA	W4BSA	147.69	147.09		A
SPRINGFIELD	WR4AGH	147.63	147.03	N	
STANTONVILLE	WA4TPA	144.79	145.39	N	
UNION CITY	WR4AUQ	146.10	146.70	N	
WALNUT COVE	W4RJC	144.67	145.27	N	
WAVERLY	NO4Q	146.685	146.085	N	
WINCHESTER	WR4AFH	146.22	146.82		

220 MHZ

CHATTANOOGA	K4VCM	223.18	224.78		A
CHATTANOOGA	WA4ZOK	223.30	224.90		
GREENEVILLE	WB4NKM	223.34	224.94		A
KNOXVILLE	WA4YON	222.86	224.46		
NASHVILLE	WB4ZSA	222.38	223.98		A
NASHVILLE	N4DKA	222.42	224.02	N	

440 MHZ

ALAMO	WB4EDS	448.75	443.75	N	L
BENTON/BEAN MT	K4SIR	449.95	444.95	N	C
BRISTOL/HLSTN MT	WR4ADO	449.50	444.50		
CHATTANOOGA	WA4ZOK	439.25	427.25		V
FRANKLIN	WB4EPG	447.80	442.80	N	
GALLATIN	WD4KWP	449.45	444.45		
GREENEVILLE	WB4NKM	449.65	444.65		
KNOXVILLE	K4HXD	449.30	444.30		
KNOXVILLE	KB4NK	449.50	444.50		
MEDINA	K4BEZ	447.05	442.05	N	AL
MEMPHIS	WA4QWW	447.80	442.80	N	
MEMPHIS	WB4BDO	448.40	443.40	N	A
MEMPHIS	WD4APK	449.30	444.30	N	
MEMPHIS	WA4FNL	449.50	444.50	N	A
NASHVILLE	N4TK	449.775	444.775	N	
NASHVILLE	WB4THG	449.875	444.875	N	
NASHVILLE	WB4QES	449.975	444.975	N	
OAK RIDGE	K4EAJ	449.40	444.40		L

SIX METERS

CHATTANOOGA	WB4LRD	52.01	53.01	N	
KNOXVILLE	WB4IOB	52.15	53.15		
KNOXVILLE	WA4YON	52.64	53.64		
KNOXVILLE	K4HXD	52.76	52.525		
MEMPHIS	WR4AZK	52.01	53.01		

SOUTH CAROLINA REPEATERS

TWO METERS

AIKEN	N4ADM	147.90	147.30		
ANDERSON/LOCAL	WR4AIO	146.37	146.97		PA
ANDSN/SASFRAS MT	WR4AIO	146.19	146.79		
BAMBERG	WA4DFP	144.73	145.33	N	
BEAUFORT	KB4CY	146.01	146.61		
BLAIRSVILLE(GA)	WA4EZN	147.69	147.09	N	LE
CAROWINDS	WR4ABK	147.78	147.18	N	
CHARLESTON	K4LWS	146.06	146.66	N	
CHARLESTON	K4ILT	146.16	146.76	N	PA
CHARLESTON	W4IVE	146.34	146.94	N	T
CHARLESTON	WB4LET	147.87	147.27		A
CHELSEA	KB4GY	146.01	146.61	N	
CHERAW	WD4HEH	147.735	147.135		
COL./GASTON	WB4NEP	144.61	145.21		EA
COLUMBIA	N4EOY	146.07	146.67		
COLUMBIA	WB4OCB	146.16	146.76		
COLUMBIA	K4AVU	146.28	146.88		
COLUMBIA	K4LNU	146.34	146.94		
COLUMBIA	K4AVU	147.81	147.21		
COLUMBIA	N4CZR	147.84	147.24	N	
COLUMBIA	WB4VLY	147.93	147.33		
COLUMBIA	K4LNU	147.96	147.36		A
DALTON(GA)	KA4WIZ	147.315	147.915		
DILLON/PEE DEE	NN4N	146.145	146.745		
FLORENCE	W4ULH	146.25	146.85		
FLORENCE	WA4ISM	146.37	146.97		PA
GOOSE CREEK	W4NAT	147.78	147.18	N	
GREENVILLE	W4AZT	146.10	146.70		A
GREENVILLE	WR4	147.675	147.075	N	PA
GREENWOOD	WB4UGA	147.765	147.165		PA
GREER	W4IQQ	146.34	146.94	N	
GRNVLE/CSRS HD	W4NYK	146.01	146.61		
GRNVLE/PARIS MT	W4NYK	146.22	146.82		PA
HARTWELL(GA)	KY4T	146.895	146.295		A
HODGES/GREENWOOD	KB4YF	144.53	145.13		
LANCASTER	W4PAX	146.10	146.70		
LANCASTER	WB4BGF	147.84	147.24		
LAURENS	WA4UZA	146.25	146.85	N	A
LEXINGTON	WR4AGK	147.255	146.835	N	
LONG MT	WA4JRJ	147.87	147.27	N	
LYMAN	KS4I	147.885	147.285		
MARION	W4YLT	146.40	147.00		EA
MONCKS CORNER	WA4DDK	147.75	147.15	N	A
MYRTLE BEACH	WD4JMT	146.01	146.61		A
MYRTLE BEACH	WA4YEE	147.72	147.12	N	
MYRTLE BEACH, N	WA4JYR	147.63	147.03	N	PA
N. AUGUSTA	K4FKJ	146.13	146.73		

CVRA REPEATER SYMBOLS

Unmarked in First Code column-Full CVRA Members

N	NON Member CVRA	RB	Remote Base System
D	Delinquent Member	T	Tone Access Repeater
M	T-MARC Repeater	L	Linked Repeater
A	Open Autopatch	R	Radioteletype Rptr.
PA	Private Autopatch	V	Television (SS or ATV)
EA	Emerg. Autopatch	P	Proposed Repeater
		C	Under Construction
		O	Off Air Temporarily

31st ANNUAL
ROCK HILL HAMFEST
OCTOBER 3, 1982

LOCATION: JOSLIN PARK ON LAKE WYLIE

TIME: 0700-UNTIL — Prize Drawing 1500

TALK-IN: 146.43/147.03 and 146.52

REGISTRATION: Each registration includes one prize ticket. Wives and children are admitted FREE. Noon meal will be available in the park.

Pre-register and $ave, plus get a free chance on an ICOM IC2AT. You do NOT have to be present to win this or any one of the major prizes.

PRE-REGISTRATION $3.00
REGISTRATION AT THE GATE $4.00

Any Pre-Registration which arrives after Sept. 25 will be held for you at the gate. If you do not arrive before the drawing, we will put your stub in the prize bin.

PRIZES:
1st - KENWOOD TS-830S
2nd - KDK 20 25 VHF Transceiver
3rd - CUSHCRAFT A3 TRI-BANDER
PRE-REG. - ICOM IC2AT

MAJOR PRIZES OBTAINED THROUGH

G.I.S.M.O.
1039 LATHAM STREET
ROCK HILL, S. C. 29730
803-366-7157
GENERAL INTERNATIONAL SERVICES (METRO OUTLET)

PRE-REGISTRATION FORM - $3.00 EACH

NAME _____ CALL _____

STREET _____

CITY _____ STATE _____ ZIP _____

NO. REGISTERING _____ ENCLOSED $ _____

MAIL TO:
YORK COUNTY A.R.S.
Box 4141 CRS
Rock Hill, S. C. 29730

N. AUGUSTA	K4VF	147.72	147.12	N	A
NORTHWEST SECT.	W4GZL	144.51	145.11	N	P
ORANGEBURG	WR4AQY	147.69	147.09	N	A
PICKENS	WB4YXZ	146.40	147.00		A
ROCK HILL	WR4	144.71	145.31	N	
ROCK HILL	K4YTZ	146.43	147.03		PA
SAVANNAH(GA)	W4HBB	146.28	146.88		
SAVANNAH(GA)	W4HBB	146.37	146.97		A
SIMPSONVILLE	WD4BJY	146.13	146.73		A
SIMPSONVILLE	WA4SDT	147.75	147.15	N	R
SPARTANBURG	K4JLA	147.69	147.09	N	PA
SUMMERVILLE	WR4AUV	146.19	146.79	N	
SUMMERVILLE	WB4LET	147.87	147.27	N	EA
SUMTER	WR4AOI	146.04	146.64		
SUMTER	WA4UMU	147.615	147.015		A
TOCCOA(GA)	KA4DIP	147.93	147.33		
WEST BROW(GA)	KC4EV	147.81	147.21		
WHITE HALL	WR4AQL	146.31	146.91	N	

220 MHZ

COLUMBIA	N4EOY	222.30	223.90		O
EASLEY/SASFRS MT	KJ4X	222.46	224.06		
PICKENS	WB4QHF	222.54	224.14		

440 MHZ

CHARLESTON	N4SC	449.10	444.509	N	T
COLUMBIA	KC4YI	449.10	444.10		
ROCK HILL	KA4RFA	442.25	447.25	N	

KNOXVILLE	K4HXD	29.52	29.62		C

VIRGINIA REPEATERS

TWO METERS

ALEXANDRIA	WD4PDP	146.055	146.655	M	
ALEXANDRIA	W4HFH	147.915	147.315	M	
ALTAVISTA	WA4ISI	146.055	146.655	N	
ARLINGTON	WA4YVN	146.445	147.045	M	
BARREN SPRINGS	K4HZS	146.07	146.67		
BARREN SPRINGS	K4HZS	147.78	147.18		
BEDFORD	WB4JBJ	147.705	147.105		LR
BERRYVILLE	WA4TSC	147.90	147.30	M	
BLACKSBURG	AB9I	146.115	146.715		
BLAND	N4AZJ	144.75	145.35		L
BLUEFIELD	W3MOP	144.89	145.49	N	A
BLUEFIELD	WD8OGY	146.415	147.015		PA
BRISTOL	K4ILW	146.07	146.67		A
BRISTOL	W4SZP	146.28	146.88		
BROMLEY MT	WR4ATJ	146.01	146.61		
CHARLOTTESVILLE	WA4TFZ	146.16	146.76		
CHARLOTTESVILLE	WA4TFZ	146.325	146.925		
CHESAPEAKE	N4SD	146.19	146.79		A
CHESTERFIELD	KA4CBB	147.96	147.36		
CLIFTON FORGE	K4QEL	147.90	147.30	N	
COVINGTON	WB4CAV	146.22	146.82	N	
CULPEPPER	WR4BCS	147.72	147.12	M	
DANVILLE	K4WQS	146.10	146.70		
DANVILLE	WR4AHG	147.95	147.35	N	
DANVILLE(DCC)	WB4GJG	146.325	146.925		
DEWITT	WA4ZOZ	146.43	147.03	N	
FAIRFAX	W4LBL	146.19	146.79	N	PA
FAIRFAX	K4VYN	146.31	146.91	N	PA
FALLS CHURCH	W4AQD	144.75	145.35	M	
FARMVILLE	WB4NWP	146.31	146.91	N	A
FINCASTLE	W4WIC	146.04	146.64		
FOREST	K4STE	146.16	146.76		EA
FRANKLIN	K4SPS	147.90	147.30	N	PA
FREDRICKSBURG	WB4LNT	147.615	147.015		
GALAX	WA4ZIV	144.83	145.43	N	
GALAX	WA4DFH	147.735	147.135		
GALAX/BRIRP MT	WR4AHR	147.69	147.09		
GATE CITY	WD4GTA	147.945	147.345	N	
GRUNDY	K4HWQ	147.92	147.32	N	A
GUM SPRING	KB4GX	147.87	147.27	N	
HAMPTON	WR4ALW	146.13	146.73		
HAMPTON	WR4AFT	146.34	146.94	N	T
HAYSI	WR4AWR	147.60	147.00	N	
HAZEL MT	WD4CYZ	146.235	146.835	N	
HIGH KNOB/WISE	K4AXO	147.81	147.21		
HILLSVILLE	WD4BTJ	147.975	147.375		A
JONESVILLE	WA4OVC	146.31	146.91		
KLMNRK/SALUDA	WA4UAF	147.93	147.33		
LEBANNON	N4ATT	144.61	145.21	N	C
LEXINGTON	WA4WBD	146.07	146.67		
LEXNGTN/COLE MT	K4PQD	147.93	147.33	N	
LYNCHBURG	WR4AXO	146.01	146.61	N	
LYNCHBURG	WA4RTS	147.765	147.165		
LYNCHBURG	W4OSH	147.975	147.375		PA
MANASSAS	WD4JCE	144.67	145.27	M	R
MANASSAS	W1CRO	146.37	146.97		PA
MARION	N4BIW	146.04	146.64		A
MARTINSVILLE	AB4L	147.885	147.285		
MCLEAN	WD4IWG	147.81	147.21	M	R
NEW MARKET	WB4DAK	146.025	146.625	M	
NEWPORT NEWS	WB4CTF	147.765	147.165		PA
NEWPORT NEWS	WA4OHX	147.975	147.375	N	AC
NORFOLK	WB4LJM	146.10	146.70		
PARKSLEY	WA4TVS	147.855	147.255	N	C
PETERSBURG	K4SII	147.78	147.18	N	
PETERSBURG	K4ARO	147.84	147.24		PA
PETERSBURG	K4ARO	147.99	147.39		
PORTSMOUTH	N4PR	146.25	146.85	N	
RADFORD	KC4WA	147.645	147.045		
RICHMOND	W4SQT	144.83	145.43		
RICHMOND	WB4QEY	146.04	146.64		
RICHMOND	WR4ACW	146.28	146.88	N	PA
RICHMOND	W4ZA	146.34	146.94		T
RICHMOND	WA4ECM	147.66	147.06	N	
RIPPLEMEADE	K4TUE	146.31	146.91		
ROANOKE	WB4QOJ	146.145	146.745	N	L
ROANOKE	WR4AHT	146.34	146.94	N	AO
ROANOKE/POOR MT	W4CA	146.385	146.985		L
SALEM	W4PDL	146.28	146.88	N	
STAUNTN/AFTON MT	W4PNT	147.675	147.075	N	LR
STAUNTON	WA4ZBP	146.25	146.85		
STAUNTON	W4WRN	147.645	147.045	N	
STERLING	WA4TXE	146.115	146.715	M	
SUFFOLK	WR4AKS	146.40	147.00	N	PA
TAZEWELL	WD4DZE	147.75	147.15	N	
VIRGINIA BEACH	WA4KXV	146.37	146.97		A
VIRGINIA BEACH	WA4SBC	147.645	147.045	N	
WARRENTON	WB4FJT	147.765	147.165	M	
WAYNESBORO	W4BLD	147.63	147.03		
WILLIAMSBURG	W4NTG	146.07	146.67	N	
WINCHESTER	W4RKC	146.22	146.82		
WOODBRIDGE	WB4FQR	147.84	147.24	M	A
WYTHVL/SAND MT	WA4EMS	146.175	146.775		

220 MHZ

ALEXANDRIA	WA4CCF	223.22	224.82	M	
DAN/WHT OAK	K4OAK	223.16	224.76	N	
FAIRFAX	K4GCM	222.34	223.94	N	
FALLS CHURCH	N4CHP	222.22	223.82	M	
GALAX	WA4DFH	222.74	224.34		
LYNCHBURG	WB4DBB	223.34	224.94		C
SUFFOLK	WA4JUO	222.34	223.94	N	C

440 MHZ

ALEXANDRIA	WR4AAG	439.25	426.27	M	V
ALEXANDRIA	W4HFH	449.60	444.60	M	
ANNANDALE	WR4AQG	444.85	449.85	M	PL
ARLINGTON	K8ZOA	449.00	444.00	M	L
CHARLOTTESVILLE	WA4TFZ	449.25	444.25		
COVINGTON	WA4HTI	447.25	442.25	N	
FAIRFAX	K4JYF	444.75	449.75	N	
FALLS CHURCH	WB8CRK	449.45	444.45	M	L
FINCASTLE	W4WIC	448.75	443.75		
LEXNGTN/COLE MT	K4PQD	449.15	444.15	N	
LYNCHBURG	WB4DBB	449.35	444.35		L
LYNCHBURG	K4HEX	449.50	444.50	N	RB
MANASSAS	WD4JCE	444.225	449.225	M	L
PETERSBURG	K4ARO	449.50	444.50		
PETERSBURG	K4ARO	449.85	444.85		
ROANOKE	WR4AFE	447.75	442.75	N	
ROANOKE/POOR MT	W4CA	442.50	447.50		L
SOUTH BOSTON	WB4YWH	447.25	442.25	N	C
STAUNTON	W4WRN	449.95	444.95	N	C
TYSONS CORNER	WB6GUS	448.50	443.50	M	
VIRGINIA BEACH	WA4KXV	449.95	444.95		
WAYNESBORO	W4BLD	449.30	444.30		PA
WAYNSBR/AFTON MT	W4BLD	449.05	444.05		
WOODBRIDGE	WB4FQR	444.90	449.90	M	

SIX METERS

ABINGTON	WR4ATJ	52.01	53.01	M	L
ALEXANDRIA	WA4CCF	52.13	53.13	M	P
DANVILLE(DCC)	WB4GJG	52.13	53.13		
FAIRFAX	KA4DCS	52.58	52.48	M	
LEXNGTN/COLE MT	K4PQD	52.01	53.01	N	L
LYNCHBURG	WB4DBB	52.15	53.15		
NORFOLK	W4NV	53.525	52.525	N	
NORTN/HIGH KB	K4LSP	52.01	53.01		
SOUTH BOSTON	WB4YWH	52.07	53.07	N	C

TEN METERS

CHARLOTTESVILLE	K4RKA	29.60	29.60	N	RB

GEORGIA REPEATERS

TWO METERS

ADAIRSVILLE	WB4LRA	146.085	146.685		
ALBANY	WR4ADM	146.10	146.70		
ALBANY	WR4ANB	146.22	146.82		
AMERICUS	WR4AQH	147.87	147.27		
ASHBURN	WA4NTF	144.63	145.23		
ASHBURN	K4QT	147.285	147.885		
ATHENS	WA4AKF	146.13	146.73		
ATHENS	K4TQU	147.375	147.975		
ATLANTA GA TECH	W4AQL	147.66	147.06		
ATLANTA	W4VTA	144.51	145.11		C
ATLANTA	N4CLA	144.69	145.29		
ATLANTA	WB4LBM	144.71	145.31		
ATLANTA	WR4ABE	146.04	146.64		T
ATLANTA	W4DOC	146.22	146.82		
ATLANTA	WA4LOJ	146.34	134.94		
ATLANTA	WR4ABC	146.37	146.97		
ATLANTA	WR4ARK	146.40	147.00		PA
ATLANTA	W4LUZ	147.855	147.255		T
AUGUSTA	W4ALK	146.34	146.94		
AUGUSTA	N4BMA	147.78	147.18		T
BALDWIN	WD4NHW	147.78	147.18		
BLAIRSVILLE	WA4EZN	147.69	147.09		
BRUNSWICK	K4TVE	146.13	146.73		
BUFORD	WD4JXR	147.87	147.27		
CARROLTON	W4FWD	146.04	146.64		
CEDARTOWN	WR4AZU	147.72	147.12		
CLEVELAND	K4FOW	144.69	145.29		
CLOUDLAND	N4AHE	147.225	147.825		
COHUTTA-RTTY	WR4AXM	146.46	147.06		
COLUMBUS	WR4BBB	146.01	146.61		
COLUMBUS	N4BJZ	146.28	146.88		
COLUMBUS-RTTY	K4ACH	144.77	145.37		
CONYERS	WR4	146.925	146.325		
CONYERS	WD4JDM	147.81	147.21		
COVINGTON	WA4ASI	146.925	146.325		
CUMMING	W4BJT	144.81	145.41		
CUMMING	K4BYK	147.75	147.15		
DALLAS	WR4AHM	146.25	146.85		
DALLAS	KB4EO	147.96	147.36		
DALTON*	KA4WIZ	147.315	147.915		
DUBLIN	WA4HZX	147.96	147.36		
FOLKSTON	K4DMK	146.19	146.79		
FOREST PARK	K4KQK	144.65	145.25		
FORSYTH	WR4AQA	147.315	147.915		
GAINSVILLE	W4NSO	146.07	146.67		
GRIFFIN	WB4GWA	144.81	145.41		
GRIFFIN	WR4AIV	146.31	146.91		
GRIFFIN	WR4AEA	146.43	147.43		
HAMILTON	WD4MJV	147.835	147.235		
HAPEVILLE	WR4ABN	147.63	146.03		
HARTWELL*	KY4T	146.895	146.295		A
IRWINTON	WB4NFG	147.84	147.24		
ISABELLA	W4MM	146.13	146.73		
JESUP	WA4EQL	146.07	146.67		
JONESBORO	WA4OGE	144.73	145.33		
JONESBORO	W4BOC	144.85	145.45		
KENNESAW	WB4UPC	145.43	144.83		
KENNESAW	WD4BMC	146.13	146.73		
KENNESAW	WR4AMN	146.28	146.88		
LAGRANGE	WR4	146.40	147.00		
LAGRANGE	WR4AVJ	147.93	147.33		
LYONS	K4HAO	146.22	146.82		
MACON	WB4OLL	144.83	145.43		
MACON	W4BKM	146.06	146.66		
MACON	K4IIA	147.66	147.06		
MARIETTA	W4PPT	147.075	147.675		
METTER	W4TUM	146.31	146.91		
MILLEDGEVILLE	WB4DOJ	146.10	146.70		
MOULTRIE	WD4KOW	146.19	146.79		
NEWNAN	K4SEX	146.19	146.79		
PINE MT VALLEY	WB4ULJ	144.59	145.19		
PRESTON	W4TOV	146.385	146.985		
QUITMAN	WR4BBH	146.28	146.88		
RINGGOLD	WR4ABZ	146.715	146.115		
ROME	WR4ADH	146.34	146.94		
ROSWELL	WA4BRO	144.87	145.47		
SANDY SPRINGS	WB4CPL	144.75	145.35		
SANDY SPRINGS	WA4NNO	146.40	147.00		
SAVANNAH	WD4AFY	144.77	145.37		
SAVANNAH	K4NLX	146.10	146.70		PA
SAVANNAH	WR4AVO	147.63	147.03		
SAVANNAH*	W4HBB	146.28	146.88		
SAVANNAH*	W4HBB	146.37	146.97		A
SMYRNA	WA4YUR	144.61	145.21		
STATESBORO	WR4	147.81	147.21		
STONE MTN	W4BOC	146.16	146.76		
SVR CRK/MT ALTO	K4HNM	147.90	147.30		
SWAINSBORO	K4VYX	146.19	146.79		
THOMASTON	K4IMK	147.99	147.39		
THOMASVILLE	K4UFM	147.66	147.06		
TOCCOA*	KA4DIP	147.93	147.33		
VALDOSTA	WA4SMH	146.16	146.76		
VALDOSTA	WA4SMH	147.135	147.735		
VIENNA	WA4RWS	144.89	145.49		
WARNER ROBBINS	WB4BEO	146.25	146.85		
WARNER ROBBINS	WR4AZP	147.90	147.30		
WEST BROW	KC4EV	147.81	147.21	N	
WRIGHTSVILLE	WA4RVB	146.34	146.94		

220 MHZ

ATLANTA	W4LBP	223.22	224.82	
KENNESAW	WB4UPC	222.34	223.94	
KENNESAW	WB4UPC	223.34	224.94	

440 MHZ

ALBANY	WA4GKI	439.25	427.25	V
COLUMBUS	WA4QHN	449.20	444.20	
KENNESAW	WB4IXF	449.50	444.50	
STONE MTN	W4BOC	444.25	449.25	
WARNER ROBBINS	WD4ASB	444.50	449.50	

EAST KENTUCKY REPEATERS

TWO METERS

ASHLAND	WR4ACQ	146.34	146.94	
ASHLAND	WR4ALH	147.84	147.24	
ELKHORN CITY	WR4AWR	147.60	147.00	EA
GRAYSON	N4BDX	144.79	145.39	
HAZARD	K4VHF	146.07	146.67	
JENKINS	WD4PDJ	147.99	147.39	
LOUISA	WA4SWF	146.13	146.73	
MAYTOWN	N4ESP	146.28	146.88	
MOREHEAD	K4GFY	146.31	146.91	
PIKEVILLE	WR4AMS	146.25	146.85	
PIKEVILLE*	KA4BQH	144.59	145.19	
PIKEVILLE*	N4ETG	146.19	146.79	PA

MARYLAND REPEATERS

TWO METERS

ADELPHI	WB3FRW	144.77	145.37	
ANNAPOLIS	W3VRD	144.73	145.33	
ASHTON	WR3AFT	146.40	147.00	
BALTIMORE	K3SP	146.07	146.67	
BALTIMORE	W3DID	147.63	147.03	
BALTIMORE	W3BPX	147.885	147.285	
BEL AIR	K3GUX	146.175	146.775	
BETHESDA	K3YGG	144.69	145.29	
CHELTENHAM	WA3OPC	147.75	147.15	
CHEVERLY	WR3ABC	146.01	146.61	
COLLEGE PARK	W3EAX	144.89	145.49	
COLUMBIA	K3CUJ	147.735	147.135	
COLUMBIA	WR3AGP	147.99	147.39	
CROWNSVILLE	WR3ACL	146.10	146.70	
CUMBERLAND	WA3III	144.85	145.45	
CUMBERLAND	WR3AGI	146.28	146.88	
DAVIDSONVILLE	WR3AJP	147.705	147.105	
E. BALTIMORE	WR3AFI	147.84	147.24	
EASTON	WA3GVI	146.445	147.045	
FREDERICK	WR3ABL	146.13	146.73	
FREDERICK	WA3OHI	147.66	147.06	
FROSTBURG	K3CCC	147.99	147.39	
GAITHERSBURG	WR3AKP	146.355	146.955	
GLEN BURNIE	WA3PJQ	146.205	146.805	
GREENBELT	W3ZM	146.235	146.835	
GREENBELT	W3MZG	146.28	146.88	
HAGERSTOWN	W3CWC	146.34	146.94	
HAGERSTOWN	K3UMV	147.69	147.09	
HAVRE DE GRACE	K3UAV	146.25	146.85	
JESSUP	WA3DZD	146.16	146.76	
LEXINGTON PARK	WR3ACP	146.04	146.64	
LEXINGTON PARK	W3NET	146.265	146.865	
LUTHERVILLE	K3VC	144.61	145.21	
N. BALTIMORE	WA3KOK	146.34	146.94	
OCEAN CITY	W3HTB	147.78	147.18	
POTOMAC	WR3ACF	147.87	147.27	
ROCKVILLE	W3RCN	144.65	145.25	
ROCKVILLE	WR3ABM	146.04	146.64	
SALISBURY	WA3ROW	146.22	146.82	
SALISBURY	WA3YII	146.385	146.985	
SILVER SPRING	WR3AEO	147.78	147.18	
W. BALTIMORE	WR3AGS	147.945	147.345	
WASHINGTON DC	WR3AGX	147.96	147.36	P
WESTMINSTER	K3PZN	144.81	145.41	

SIX METERS

WHEATON	WB3DBU	52.25	53.25	

220 MHZ

DAMASCUS	WR3AHS	222.98	224.58	
DAVIDSONVILLE	N3ARN	222.28	223.88	
E. BALTIMORE	WR3AFI	222.24	223.84	
N. BALTIMORE	N3IC	222.64	224.24	
W. BALTIMORE	WA3DZZ	223.20	224.80	
W. BALTIMORE	WR3AKN	223.34	224.94	
WASHINGTON DC	W3NKF	222.90	224.50	

440 MHZ

ANNAPOLIS	W3EAO	444.475	449.475	
BALTIMORE	W3WCQ	439.25	426.25	V
BALTIMORE	K3SP	444.325	449.325	
BALTIMORE	W3DID	448.40	443.40	
BURTONSVILLE	WA3TKW	448.65	443.65	
E. BALTIMORE	W3WCQ	426.25	1234.25	V
E. BALTIMORE	WR3AFI	444.55	449.55	
FREDERICK	WA3OHI	443.75	448.75	
FREDERICK	WR3ABL	449.80	444.80	
GAITHERSBURG	WR3AKP	443.60	448.60	
GLEN BURNIE	WA3MEJ	448.70	443.70	
HARMANS	W3YYY	443.925	448.925	
HAVRE DE GRACE	K3UAV	448.10	443.10	
JESSUP	WA3DZD	449.10	444.10	
LEXINGTON PARK	WA3UMY	448.05	443.05	
ODENTON	WA3GPC	449.70	444.70	
SILVER SPRING	WB3ARZ	448.45	443.45	
UPPER MARLBORO	WB3IUT	448.30	443.30	
W. BALTIMORE	WA3DZZ	448.35	443.35	
W. BALTIMORE	WA3WLO	448.55	443.55	
WASHINGTON DC	WA3KOK	444.975	449.975	

10 METERS

FREELAND	K3SP	29.52	29.62	

DELEWARE REPEATERS

TWO METERS

BETHANY BEACH	W3HTB	147.78	147.18	
DOVER	W3HZW	146.37	146.97	
DOVER	W3HZW	147.795	147.195	
MILLSBORO	K3JL	147.675	147.075	
NEWARK	WR3ACV	146.10	146.70	
NEWARK	WB3JTK	146.355	146.955	
WILMINGTON	WR3ABA	146.13	146.73	
WILMINGTON	WA3QLS	147.825	147.225	

220 MHZ

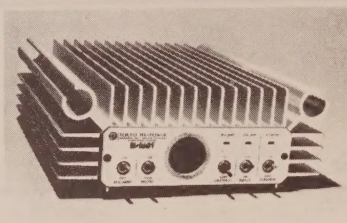
WILMINGTON	WB3DPJ	222.40	224.00	
WILMINGTON	AD3M	222.94	224.54	

Md., Del., N.Va. Index Ctsy —
Gary Hendricksen, T-MARC

TOKYO HY-POWER

VHF LINEAR AMP

In Stock!!



HL-160V

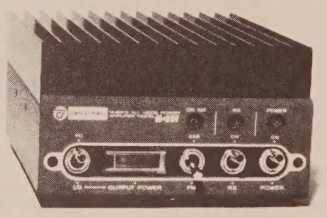
VHF 160W Linear

List $359

Only $299

FEATURES: 160W output achieved with a pair of rugged MRF247 transistors. Drive requirements as low as 10W or 3W from hand-held. Selectable hi/lo output. New style effective heat sink and high reliability one board construction. VHF wattmeter.

SPECIFICATIONS: Freq. Band: 144-148MHZ. Mode: FM-SSB-CW. Supply Voltage: DC 13.8V neg. ground, 12-23A. Output: 160W. RF Input: 1-15W(or 0.5-3W). Receive Pre-amp: 12dB gain with low-noise 2SK125 JFET. In/Out Connectors: SO-239 (50 ohm). Built-in Circuitry: Carrier operated switch, remote-control terminal, hi/lo output select, output power meter, reverse polarity protection. Dimension: 218W x 82H x 299D (m/m). Weight:3.5 kgs.



HL-82V

VHF 85W Linear

List $169

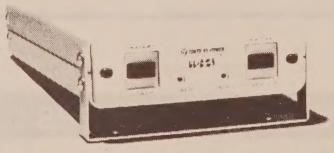
Only $139

FEATURES: A compact 144-148MHZ band amp, with receive preamp and power output meter. Sturdy design.

SPECIFICATIONS: Freq. Band: 144-148 MHZ(or 150-160MHZ). Mode: FM-SSB-CW. Supply Voltage: DC 13.8V neg. ground. 13A max., Output: 35-85W, RF Input: 2-12W. In/Out Connectors: SO-239 (50 ohm). Built-in Circuitry: COX, remote control terminal, receive preamp (MOS FET 12dB gain), output power meter, output select (hi/lo), reverse polarity protection. Dimension: 152W x 92H x 217D (m/m). Weight 1.8 kgs.

HL-32-V Our Biggest Seller!

VHF 30W Linear



HL-32V

SPECIAL PURCHASE LIMITED SUPPLY THIS PRICE . . $69

FEATURES: A compact and light-weight 144MHZ band amp with up to 30 watts output. Drive power of 1W to 3W from hand-held radio. Hi/Lo output selection.

SPECIFICATIONS: Freq. Band: 144-148MHZ. Mode: FM-SSB-CW. Supply Voltage: DC 13.8V neg. ground. 4A max., Output: 25-30W. RF Input: 1-5W. In/Out Connectors:SO-239 (50ohm). Built-in Circuitry: Carrier-operated switch, output select (hi/lo, reverse polarity protection. Dimension: 100W x 30H x 158D (m-m). Weight:52 0g.

Only $79

List $89.95

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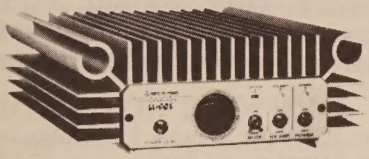
VHF LINEAR AMP



HL-90U

UHF 90W Linear

List $389

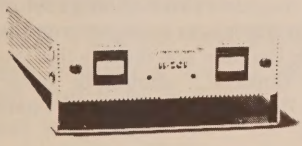
NEW!

Only $339

FEATURES: 80W output achieved with a pair of rugged 2SC2783 transistors. Drive requirement as low as 10W. Selectable hi/lo output. Newly designed effective heat sink and state of the art low-noise GaAs FET (3SK97) RX preamp.

SPECIFICATIONS: Freq. Band: 430-440MHZ. Mode: FM-SSB-CW. Supply Voltage: DC 13.8V neg. ground. 5-17A. Output: 80W. RF Input: 10W. Receive Preamp: 18dB gain with low-noise 3SK 97 FET. In/Out Connectors: type N (50 ohm). Built-in Circuitry: COX, remote-control terminal, hi/lo output select, output power meter, reverse polarity protection. Dimension: 218W x 82H x 299D (m/m). Weight: 3.5 kgs.

Special Order-Allow 2 weeks!



HL-20U

UHF 20W Linear

List $119

NEW!

Only $99

FEATURES: A compact and light-weight 70CM band amp with 20W output. Drive power of 1W to 3W from hand-held radio. Hi/Lo output selection.

SPECIFICATIONS: Freq. Band: 440-449-975MHZ. Mode: FM-SSB-CW. Supply Voltage: DC 13.8V neg. ground.4A max. Output: 15-25W. RF Input: 1-3W. In/Out Connectors: SO-239 (50 ohm). Built-in Circuitry: Carrier operated switching, output select (hi/lo), reverse polarity protection. Dimension: 100W x 30H x 158D (m/m). Weight: 610 g.

We Are The 2nd Largest Santec/Tokyo Hi Power Dealer On The East Coast!

ANTENNA COUPLER

HC-2000

HF Band 2kW Antenna Coupler

List $359.95

Only $299

FEATURES: An HF All Band 2kW Antenna Coupler with Power/SWR meters and 6 position antenna load select switch, 6 to 1 vernier dials, high-Q coils. WARC bands included.

SPECIFICATIONS: Freq. Band: 1.9-3.5-7-10-14-18-21-24.5-28MHZ. Input Impedance: 50 ohm. Output Impedance: 10-500 ohm. MaX. Handling Power: 2kW peak to 50 ohm load (1.9MHZ.... 500Wmax.) Meters: SWR, 2kW/200W/20W. In/Out Connectors: SO-239 and Johnson terminals. ....4 coaxial outputs (one for dummy), one single wire and one balanced wires. Mode Switch: can select either "coupler" or "direct" (thru). Dimension: 326W x 130H x 400D (m/m). Weight: 9.6 kgs.

HC-150

HF Antenna Coupler

List $99.95

Only $89

FEATURES: A compact, all HF band antenna coupler with power/SWR meter WARC bands included.

SPECIFICATIONS: Freq. Band: 3.5-7-10-14-18-21-24.5-28 MHZ. Input Impedance: (50 ohm). Output Impedance: 10-250 ohm. Handling Power: 200W PEP. SWR/Power Meter: Scales of SWR, 20W, 200W. Connectors: SO-239. Dimension: 210W x 84H x 187D (m/m). Weight: 2.2 kgs.

SEE ENCOMM ADS In Major Magazines for More Specs & Details
Or Write Williams Radio for Brochures

WEST VIRGINIA NOTES

—by Ted Wolfe, WD4KHL

Charleston, WV, hams came out fighting after a misleading article in the Daily Mail on 31 March. Amateur radio operators were the only radio service mentioned specifically in a story on Television Interference. It left the impression we are responsible for most TVI, and caused a lot of talk on repeaters around the Valley and at club meetings. It also prompted over half a dozen letters to the editor in protest. Over a fortnight's time the newspaper did print six of the amateur rebuttal letters in its Letters-to-the-Editor column, so we did have an opportunity to have our side presented.

• • •

The weather was wet in the Mountain State over the Memorial Day weekend. Over a dozen amateurs in the Beckley area fed information to the Weather Service there on conditions in the area during heavy thundershowers on Saturday evening, May 29, mostly through the Layland/Mann Mountain repeater (144.71/145.31). Some overnight flooding in a few mountain hollows in Kanawha and Fayette Counties brought amateurs into the picture on Sunday morning, May 30. The Kanawha ARES group went into operation manning stations at Red Cross shelters and headquarters, the state emergency command post in the Capitol, and other areas. Some accompanied Department of Highways supervisors for a time when all but one DOH radio frequency went out of service. Seventeen hams were logged as participating by net control operator Ken Rupe, WD8AEW. Most coordination was through the Lick Knob repeater.

Those same weekend storms also put a damper on the special event at the New River Gorge Bridge by the Tri-County Amateur Radio Club of St. Albans. They had to shut down the W8WVA operation during the severe thunderstorms because of lightning. The operation closed earlier than planned Sunday so operators could get back home to help clean up messes there caused by high water.

• • •

Bob Johnson, W8VEN, says a former MARS repeater now belonging to the Logan County ARC and temporarily operating on a wide 144.090/147.110 split, will soon be changed to a standard 600 Khz offset. Bob says the club has coordinated 144.63/145.23 and hopes to make the changeover this summer. The repeater is located on Blair Mountain.

The Logan club meets the First and Third Monday of the month at 7:00 p.m. at the Appalachian Power Company Maintenance Building. An afternoon meeting for the convenience of shift workers or others who cannot attend at night is scheduled for 2:00 p.m. at the same place on the Fifth Sunday of any month with five Sundays.

• • •

I understand the County Hunters group plans to hold its 1983 convention in Charleston, WV. I'm trying to get more information for a future issue of the Journal.

• • •

Two groups of Raleigh County hams were on Bolt Mountain Saturday and Sunday, June 12-13, during the VHF QSO party weekend. One group was working the contest while the other was installing the new WB8LVH 144.57/145.17 repeater. The installation crew blew the finals on the new machine while tuning the duplexers. Repairs were made and a temporary two-antenna setup was erected while the duplexers were returned to the manufacturer. By the time you receive this issue of the Journal the duplexers should be back and installed and the Bolt Mountain repeater operating at full potential.

• • •

The Caretta Mountain 144.85/145.45 repeater at Welch, which was out of service for nearly three months, was returned to the air during the third week in June.

• • •

The McDowell Amateur Radio Club of Welch operated a special event station several days before and after June 20, West Virginia Day. But the operation was plagued by the bane of all amateurs — rig problems. At Charleston on June 20, the state capitol building was rededicated. The complex, designed by Cass Gilbert, is 50 years old this year. We did not hear of any amateur involvement in the program at the capitol that day, but amateurs visiting the capitol city for the occasion were heard using some of the area repeaters during the day.

• • •

If you've heard the Westlink report over any repeaters in your area, you've probably heard one of our area hams. Jim Davis, KC8BL, formerly of California, now manages a Charleston FM station. He still feeds occasional material for Westlink by phone to California where the report is assembled. Westlink is heard regularly on two area repeaters — the Charleston WB8CQV 146.28/88 machine and the K8SLI 147.87/27 repeater at Scott Depot.

(Continued On Page 44)

ROHN TOWERS AND ACCESSORIES

25-G STRAIGHT SECTIONS

We also have flat and sleeved top sections, thrust bearings, House brackets, short Base Sections, rotor plates, Guy assemblies, 3/16 EHS Guy wire, cable clamps, turnbuckles and other items.

ROHN TOP SECTIONS

If you have a 25-G Rohn Tower at the height you want, and do not have a top section, we have the new ROHN BAS-25-G cap section. It has a flat top, drilled for TB-3 bearing and a welded-in rotor plate. Length 20-inches.

OTHER TOWER ACCESSORIES

Aluminum mast — 2-in. OD 6061 tubing with ¼-in. wall.
12-foot lengths, 19 lbs — IN Stock
24-foot lengths, 38 lbs — Special Order

Touch-up rust spots on your tower and antenna bolts with RUST-OLEUM. Cold Galvanizing.
Large 20-oz. Industrial spray can $5.10
Mosley Penetrox grease — $1.29
Mosley Weather Guard Antenna Coat — 8-oz. can. $4.75

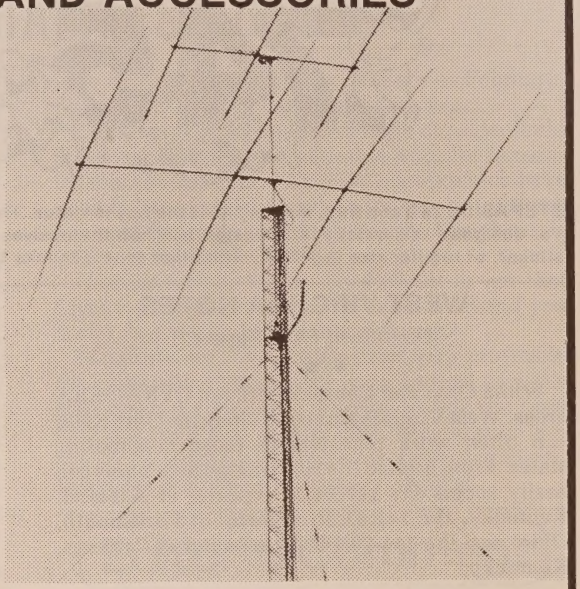
Many people have difficulty in water proofing and tying down hard line and multiple runs of cable to withstand years of weathering. We believe the following items are some of the best available for this purpose:

Scotchkote electrical coating made by 3-M Co. 15 oz. brush top can. Can be used for UNDERWATER CONNECTIONS.

15 oz. – Will do 50-100 Connections . . . $7.90
(Previously advertised for $24.00)

Stainless steel strapping kits, for strapping hard line or mutliple runs of Coax. Kits come with 25,50, or 100 ft. of stainless steel strapping and buckles.

25-ft. Kit $14.20
50-ft. Kit $20.40
100-ft. Kit.....$29.50



We can also supply ½ and 7/8" hard line in aluminum or copper. We also have a limited stock of hard line connectors. If we do not have the connectors you need, they can be supplied within approximately ten days.

If you want or need something not listed above, call us, we may have it or can get it for you. All of the above items are standard stock items and we will try to fill your order promptly. We have a limited variety of utility pole hardware and can supply utility poles in the Greensboro, N. C. area only. Call us if you have a problem, we will design a system for you.

WEST ANTENNA SERVICE

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LOCAL CALL 621-2473

ROUTE 6, BOX 529-A ● GREENSBORO, N.C. 27405
HARWOOD WEST, WB4RLO

STEP ASIDE Z99 and K93, the FM 745 is the way to status. The repeater owners of the 145-745 repeater in Roanoke, Va. designed this catchy little design and had themselves a bunch of bumper stickers printed up. The bumper sticker, of regular size is yellow, with black type. (Thanks Lee, WB4QOJ)

WEST VIRGINIA NOTES

(Continued From Page 42)

• • •

While Ohio and Kentucky are not CVRA/SERA areas, West Virginia amateurs along the Ohio River can often work repeaters in those neighboring states. From around the Huntington area hams can easily access the 147.84/24 repeater at Ashland, Kentucky, the 147.97/36 repeater at Portsmouth, Ohio, and the 144.79/145.39 repeater at Grayson, Kentucky.

• • •

The Kanawha-Fayette-Clay Amateur Radio Association, sponsors of the Kingston/Lick Knob 144.87/145.47 repeater, elected new officers for 1982-83 at the club's June meeting. The new officers assumed their posts in July. They are: Bud Morris, WA8CML, Campbell's Creek, President; Cornelius "Gum" Booker, WA8CMM, Rand, Vice President; Dempsey Baker, KC8AM, Boomer, another term as Secretary-Treasurer; Bill Wood, WB8TYX, Pratt, Publicity Director; Lyle Gaston, W8FG, Pratt, Program Director; and Ted Wolfe, WD4KHL, Cabin Creek, Net Manager. The net meets weekly at 8:30 p.m. local time each Monday, and has been averaging two dozen checkins over the past three months.

SAVANNAH (GA) HAMFEST OCT. 23-24

The Amateur Radio Club Of Savannah will sponsor a Hamfest on Saturday and Sunday October 23-24 at the National Guard Armory on Eisenhower Drive in Savannah, Georgia.

Prizes, food, flea market and indoor exhibit area will be featured with plenty of parking spaces.

Talk in on 37/97 and 28/88. For more information write: ARCS Hamfest Committee, P.O. Box 13342, Savannah, Georgia 31406 (Andy Blackburn WD4AFY)

ATLANTA, GA.—The Scientific Atlanta ARC has just put a new repeater on the air. It is a G.E. commercial solid-state on 34-94. The machine runs 60 watts to an antenna on a 60-foot tower with Metropolitan Atlanta area coverage. (Fred, K4KAZ)

• • •

STONE MT., GA.—The Alford Memorial RC has now added a 444.25-449.25 repeater on the top of Stone Mt. Hopefully it will take some of the load off the popular 2-meter 16-76 machine. The new machine is a Motorola MOTRAN running 50 watts into a J-Pole. It provides excellent coverage of Atlanta and 30 miles around the mt. (Gene, KA4TMG)

• • •

ATLANTA, GA.—If you have wanted to try 10-meter or 440 mhz. repeaters, you can work them both from your 2-meter rig through links on the WB4LBM 71-31 sub-band repeater which is open to all. (Jim, WB4LBM)

CVRA DISTRICT RAMBLINGS

PICKENS, S.C.—The Pickens 220 mhz. repeater on 54-14 went on the air on June 7 on top of Caesars Head Mountain. The machine with a new Spectrum 1000, feeding a DB Products duxplexer, uses a Hustler G7-220 antenna. The machine will be used in providing emergency communications in RACES when needed. (Mandell, WB4QHF)

• • •

GREENSBORO, N.C.—Frank reports his sub band repeater is now providing good coverage in the Triad area. The RPT repeater runs 24-watts into the duplexer a WACOM, which feed hardline to a Hustler 6 db antenna at 150-feet on Frank's tower. The machine has open autopatch, and reverse autopatch capabilities. He plans a new receiver and an increase in power in the near future. The 65-25 sub band machine can be worked in excess of 35 miles mobile. (Frank, N4AZM)

• • •

MARION, VA.—The 04-64 N4BIW repeater is now located at 3,700 feet on Walker Mt. north of Marion. For a year it was operated on the valley near Marion waiting for site approval on the mountain. It was moved to the WMSY-TV station building on the mountain in January. The Hamtronics repeater with WACOM duplexer and Mirage amplifier now has an Isopole antenna. A new stationmaster is planned. The machine also has battery backup in case of power failure. (Ken, KC4IH)

This Competition Can Hurt You!

THOSE CONFLICTING HAMFEST DATES

It's a warm pretty weekend, the middle of May. Hamfests are scheduled in two different areas, some 400 miles apart. Which way should we go?

This is the question which many long-haul hamfest Amateurs and dealers often have to answer two or three times each year.

There are 52 weeks in the year, less than 30 area hamfests, yet there seem to be 3 or 4 conflicting dates every year. Some dates even have 3 hamfests scheduled at the same time.

Many clubs have mentioned they don't feel a hamfest 400 miles away would conflict with theirs, but they are finding out different. The conflicting hamfests as a rule are suffering two ways: (1) attendance is not what is expected, and (2) dealer participation is down. Attendance and dealer participation work hand in hand. Dealers hesitate to go to sparcely attended hamfests, and Amateurs hesitate to go to hamfests with very few dealers.

Clubs must learn that even though they schedule their event the same weekend another 400 or 500 miles away, some key dealers and many of the outer region attendees are affected which live in the middle. They CANNOT attend both, so they decide which way to go, the crowd is split and the dealers split and both events suffer.

For years the REPEATER JOURNAL has published the most up-to-date Hamfest Calendar possible to enable clubs to try and plan their events on non-conflicting dates. For the most part this has worked, but there still remain several dates and conflicting with two or more hamfests.

It would be well for clubs sponsoring hamfests to take a strong look at their date, if it conflicts with another, contact the conflicting club and either one or the other MOVE their date next year. There are openings in most months for hamfests except maybe May and October. If buildings are available for cooling in summer or heating in Winter, extreme months might be considered such as June, July, or August, November, January or February. These months have openings every year.

Clubs sponsoring hamfests might consider looking at our Hamfest calendar this issue for remaining months this year, PLUS 1983 dates which have already been sent in. For the complete year, check our past February and May issues. Use these as guides to set up your dates.

Understandibly it may be difficult to get that Civic Center or Coliseum the exact weekend you desire, but what about another month?

Hamfests are fun to attend and very profitable for clubs when attendance is up enough to make ends meet. If attendance is down, maybe you need to take a hard look at your date. Maybe your two day event would work better as a one-day event. You'll never know until you try. (Editor)

TECHNICAL TIP

During a lightning storm don't just disconnect the antennas from your rigs, also disconnect the ac input to them. It's also a good practice to disconnect your TV's, stereos, refrigerator, freezer and your heat pump. More damage is done to radio equipment and appliances through high voltage surges on the ac line than direct hits by lightning.

Editorial Comment

SIMPLEX OPERATION REVISITED

Continued From Page 1)

have been the main things that have separated Amateur radio from CB.

The ARRL and CVRA-SERA bandplans were established as guidelines for UHF and VHF operation. The main purpose was to standardize channels for repeaters, simplex operation and SSB. Standardization across the country has for the most part worked since FM came into being on 2-meters in the early 70's. Coordination on standard channels since that time is the main reason you have a home repeater that receives very little interference, and continues to be a mainstay for quality communications between Amateur operators.

Standard simplex channels enables everyone to know just where to go to find other persons operating simplex, without interfering with someone else or some repeater. As sparce as this area is in Amateur population, and as many standard simplex channels as there are, certainly you can find somewhere you can operate "privately" without anyone bothering you.

Those of you who still insist you want to operate "anywhere you damn well please", go ahead if it makes you feel good. As for me, I think I'll stick with the majority and play the game by the rules.

—Wayne C. Williams, Editor

WA4KFS - WORLD'S FAIR STATION IN FULL OPERATION DAILY

—by Raymond Adams, N4BAQ

The World's Fair Amateur Radio Station WA4KFS continues daily operation from 10 a.m. to 10 p.m. Officials report there is little difficulty getting people to man the station, as many World's Fair visiting hams are coming by and taking a shift.

The club reminds anyone coming to the World's Fair and wanting to operate WA4KFS, should bring their original or a copy of their Amateur License.

Other Amateurs who work WA4KFS and want a QSL card, should send SASE to W4PKM. Also anyone working the Fair Station and 10 other Tennessee stations may receive a Commemorative Certificate. Send copy of log with 11 contacts and $2.00 to N4EFA.

WA4KFS operates 15 khz the Extra above the portion in the CW band, and 15 khz. above Advance portion in phone band.

WA4KFS serves as Net Control Station for the Tennessee Phone net on Monday nights on 3980 khz. at 233OZ.

DURHAM (NC) TRIES ONE-DAY HAMFEST AND IT WORKED!!

The Durham (NC) FM Association decided to cut their hamfest down to one day this year. The club had held two day events for several years in the past.

Since the hamfest was being held at a mall parking deck, it was decided to hold the event Saturday only, while the mall was open.

It was a success! Speaking with various club members, everyone seems to agree the one day affair was as good as if not even better than past two day events. Total attendance was about 95% of the normal two day shows. Most dealers who were contacted said their sales equaled and in some cases surpassed last years two day event.

One person commented, "We had as much fun, did as much business, saw as many people, and we were able to go home and take Sunday off." Several club members echoed the sentiment . . . . Amen!

SHORT STUFF!

QRZ, QRZ this is W4@@@, QRZ the frequency . . . . . kerchunk. "This is the frequency, I don't remember calling you." . . . . . kerchunk.

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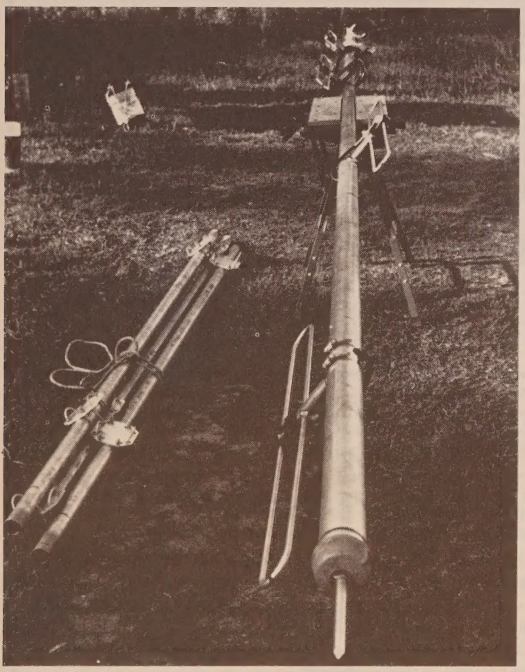
AND NOW, FROM THE CAPITAL TO THE COAST, THIS IS W4GDF REPEATER

—by Murray Adams, WA4DAN

After several months of planning and work, the Greenville Repeater Association is sporting a new antenna system. The antenna is a Phelps Dodge four dipole array located at 804 feet on the old WNCT-TV tower in Greenville, North Carolina.

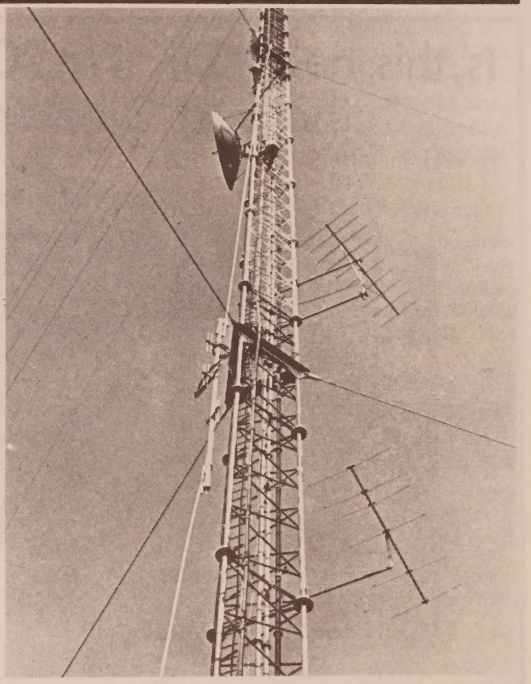
The 147.69/09 repeater first went on the air in December 1974. The antennas used were a Super-



THE GREENVILLE 69-09 repeater Phelps-Dodge 340 four dipole array in a workmate ready to go up the tower. (WB4PMQ - N4GVK Photo)

stationmaster at 750 feet for receive and a Hustler G-6 at 650 feet for transmit. This system has provided good coverage and very reliable service since then.

In January 1982 experiments using various antenna configurations were initiated including using the old Channel 9 transmitting antenna for the repeater's receive antenna. Believe it or not the Channel 9 antenna worked beautifully except for one thing: its horizontal polarization meant an automatic 20 db of attenuation for being cross-polarized. With close consultations with Danny, K4ITL, it was decided to go with the four dipole



THE DIPOLE array reaches the first guy point of the new antenna "raising" of the 69-09 repeater. It will ultimately reach its reating place at the 804-foot level. (WB4PMQ - N4GVK photo).

array. Let me now take the time to publicly thank Danny for his expert advice.

May 29th was the date picked for installation of the new antenna. It was a day to remember. It started sunny but hot and humid. A typical summer day in eastern N.C. The tower were: Bernie Nobles, WA4MOK; Gary Ambert, AI4J; Roy Becker and Lord Van Wagenen.

The antenna and sidearms were raised in six steps. Around 1 P.M. the antenna and hardware were finally at the top of the tower. This was unquestionably the hardest part of the job. Unfortunately this tower has no elevator which would have made the job much easier. Around 3:30 P.M. the antenna was in place and mounted. The only thing left was to couple the heliax from the antenna to the existing RCA 3⅛" rigid copper transmission line. This 3⅛" copper line has only .13 db loss per 100 feet! Unfortunately the reducer cone would not physically match up with the 3⅛" line. At that point an effort was made to send up a coupling device but with everyone exhausted, that effort

(Continued On Page 49)

Is this new KDK FM2030 the best 2 meter FM radio in the world?

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That's a pretty strong claim considering the competition.

Let's look at some of the features . . .

- KDK continues the tradition of being the ultimate in VHF FM mobile operations. We make maximum use of multiple function, multiple shaft controls and only three sets of knobs are located on the front panel. Still many new features have been added, such as digital RIT, reverse button, memory channel readout number and more!
- The new KDK 4 bit microprocessor chip has in-house developed software which makes all these new features possible. Plug in modules are used for CTCSS tone and diode matrix duplexing.
- We gave it a very heavy textured paint finish on the case and mounting bracket that is highly resistant to scratching! No more micro-thin paint finishes!
- Modern styled front panel with dials intelligently arranged so you can best utilize the multi-function, easy to handle controls.
- Good audio with the famous KDK audio output capability of 1.5 watts . . . you can't blow out our audio IC!
- RF power is a good, clean no spurious signal of 25 watts on high and 5 watts (adjustable) on low.
- Frequency coverage 143.005 - 148.995 mhz. S/N better than 35 db at 1 uv input. Better than .2 uv at 12 db SINAD. Squelch sensitivity better than .15 uv. Bandwidth at −6db: ±6khz, at −60db: ±16khz. Image ratio better than 70db. Double superhetrodyne. Transmitter uses variable reactance frequency modulation with maximum deviation set at ±5khz.
- Nicads for memory retention built in, nothing extra to buy. Disconnect the FM2030 from the power source and the memories remain!

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- Modern LED bar meter shows signal strength of received signal and on transmit shows relative output power.
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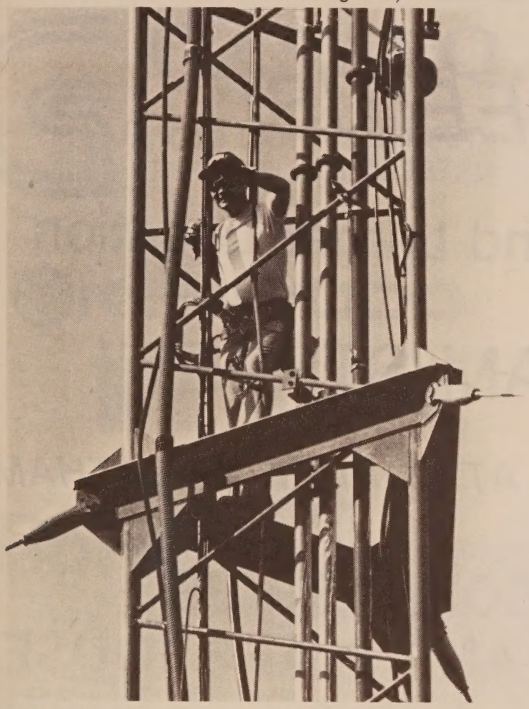
Frank & Mae Wyatt

FROM THE CAPTIOL TO THE COAST

(Continued From Page 47)



GARY AMBERT, AI4J pauses for a breather at the first guy point on the WNCT-TV tower. To the right of Gary are the 3-1/8-inch copper feedlines. (WB4PMQ - N4GVK photo)

failed. At that point the tower crew started the long trip down the tower.

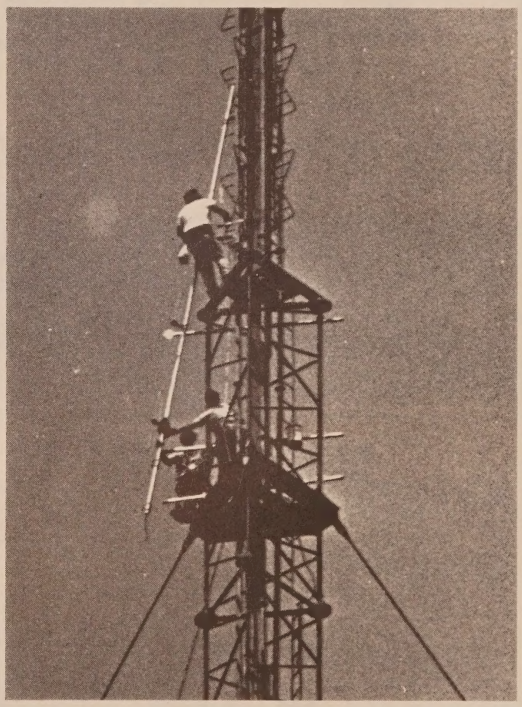
When they reached the ground they were totally exhausted, dehydrated and experiencing muscle cramps. The temperature was unmercifully hot. This crew went far beyond the call of duty and everyone was very grateful for the job well done.

The following Wednesday station engineer Roy Becker made two trips up the tower to complete the transmission line coupling. The results so far have been very satisfying. From 804 feet our line of sight distance and radio horizon are 40 and 53 miles, respectively. Our early results indicate we are easily getting 55 to 60 air mile mobile coverage. Fixed stations are checking in from areas such as: Raleigh, Salter Path, Elizabeth City, Kitty Hawk, Manteo, and the Outer Banks.

Heber Adams, W4GDF, is trustee and Macon Dail, WB4PMQ, is assistant trustee of the Greenville Repeater. They are to be commended for the fine job they do in maintaining the repeater. The Greenville Repeater Association is a small group of dedicated hams who financially support and take pride in providing a repeater for Eastern North Carolina. We only ask that Amateur Radio rules be followed and that the common courtesies for a wide coverage repeater be observed. Again, to all those who helped in this project let me say, Thanks.

Facts and figures about W4GDF Repeater

Repeater: G.E., Duplexer: Phelps Dodge six cavity, Antenna: Phelps Dodge #340 four dipole array, Transmission Line: RCA 3⅛" pressurized rigid copper, Power: 72 watts out of duplexer into 900 feet of transmission line, ERP: 140 watts, HAAT: 804 feet, AMSL: 874 feet.



AT 804 FEET the new antenna array for the Greenville 69-09 repeater is maneuvered into position by members of the Greenville Repeater Association. (WB4PMQ - N4GVK Photo).

SECOND DRAWING STILL TO COME SEPT. 5 AT SHELBY

ONE MORE TIME! The Repeater Journal is giving away one more Santec ST-144 at the Shelby Hamfest, Sept. 5th. Join or renew CVRA-SERA for one year, and you're eligible. (See or announcement and rules this issue.

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NEW SUB BAND REPEATER ON AIR IN GREENVILLE NC AREA

—by Tommy Forrest, N4GVK

Greenville, N.C. has a new two meter repeater. Its frequency is 144.75/145.35. The new "machine" is sponsored by the Pitt County Repeater Association is an open repeater with no dues.

The repeater was built about four years ago by Macon Dail/WB4PMQ, and was used at a hamfest for a short range "machine". It consists of a VHF engineering transmitter and a Hamtronics receiver. The receiver has some signal shaping circuits and is one of the early models by Hamtronics. An outboard preamplifier is also being used. When the new antenna array was installed at the 69/09 existing repeater, two antennas on the WNCT-TV tower were vacated: a Superstationmaster and Hustler G-6. The Superstationmaster is at 750 feet and the G-6 is at 650 feet. Quickly, four persons organized the association and put the repeater in operation: Murray Adams/WA4DAN, Macon Dail/WB4PMQ, Tommy Forrest/N4GVK and Bernie Nobles/WA4MOK.

The "machine" was placed in operation May 25 on the frequency of 146.46/147.06. Experiments were run and a frequency was coordinated through the CVRA-SERA.

A power amplifier was installed and worked nicely until interference ocurred from the business communications equipment in the area.

A new ID board and COR board has been installed and the repeater is operating on the new frequency 24 hours a day. The ID is "N4GVK/R GNV". The GNV identifies the repeater as being in Greenville. Immediate plans call for a crystal filter and new Hustler G-7 which is all on order. Future plans will include a UHF control link.

At the present time the output of the transmitter is about 1.7 watts into the antenna feedline with a range of about 40 miles. The repeater will be using the Superstationmaster for transmit and the G-6 or G-7 for receive until the crystal filter comes in, at which time the power amplifier will be used making the repeater output about 20 watts. and the antennas switched.

The new machine is in addition to the BARC club repeater and the 147.69/09 machine in Greenville. Everyone is welcome to use it!

SHORT STUFF!

Kerchunk, Kerchunk . . . . Kerchunk, Kerchunk . . . . Kerchunk. "Will the unidentified station please identify himself." Kerchunk . . . . . Kerchunk.

STAUNTON REPEATER HAS 10-METER DX CAPABILITY

—by Durwood Humphreys, WA4ZBP

Serving Staunton, Waynesboro, and Harrisonburg, the Staunton 25 - 85 repeater uses a GE Master Pro with Sinclair duplexers and a Hygain J-pole antenna. The antenna shares a telephone microwave tower with the antenna located at a height of 125 feet, just west of Interstate 81 between Staunton and Harrisonburg. The machine is sponsored by the Telephone Pioneers of America, Lynchburg chapter.

The machine is enhanced with a ten meter remote base, open to the users. Ten meter equipment used is GE Progress line transmitter, GE Executive receiver and a pruned 11 meter omni directional antenna located at 115 feet on the tower.

The remote base is accessed by touchtone. Codes are tt # 1 for 10 meter receiver, tt # 0 for transmitter, tt # 5 for frequency 29.5 Mhz. tt # 6 for frequency 29.6 Mhz. and tt # 2 will drop the remote and go to 2 meters only. The remote will always come up on 29.6 Mhz. The receiver must come up before the transmitter can be accessed. The courtesy beep is encoded to indicate the status of the remote, a short beep indicating 2 meters only, an extended beep indicated the 10 meter receiver is on line, and the transmitter being on line is indicated by beep being extended in length and a lower frequency. There is a timer on the transmitter of 2 1/2 minutes that takes the remote down if not used while in the transmit mode.

The two meter receiver has priority over the ten meter receiver, so a local Qso can be carried on while monitoring the 10 meter receiver with the 10 receiver being heard between two meter transmissions.

We have worked the West Coast, Midwest, Southeast and regular Qso's with the Virgin Islands. Some of the fellows have worked Africa, Holland, Japan and others, with their 2 meter handheld. Feel free to use the facility if in the area and happy DX.

Area Deaths

PAUL WILLIAMS, K4MUK, formerly of Chattanooga, Tenn. area died April 17 of Cancer. He was at the home of his son in Birmingham, Ala. where he had lived the past year.

The Greensboro Amateur Radio Club Proudly Presents The 2nd Annual 1982 Greater Greensboro N.C. Hamfest

DATE:	*November 27 + 28*
HOURS:	*9:00 A.M. - 5:00 P.M.*
LOCATION:	*National Guard Armory-Franklin Blvd.*
FOOD:	*Will Be Furnished By ?*
PRIZES:	*To Be Announced*
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	$4.00 At The Door
FLEA MARKET:	*$4.00 (Outside)*
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ARRL AND THE VHF OPERATOR

—by Steve Kercel, AA4AK
Asst. Dir., Delta Division

(Editor's Note: There is considerable concern among ARRL personnel about the drastic downtrend in ARRL membership. Here Seve Kercel gives his views on the ficticious idea Amateurs may have about the League. Kercel's comments are his own, and may or may not necessarily represent the views of the Repeater Journal and the CVRA-SERA. We offer this story to you as a service to form your own opinion, because we are also concerned about membership losses in ARRL. We may not all like it, or completely agree with it, but the League is all we have, and we can make the best of it by supporting it.)

WHAT HAS ARRL DONE FOR ME?

What has the ARRL ever done for me? Twenty-five dollars is just too much to pay for QST. All that money is going to a bunch of overpaid bureaucrats. Everybody knows that the League doesn't do anything for the VHF operator. On top of that, nobody in the ARRL listens to what I have to say anyway.

Have you ever heard anybody say such terrible things? Have you said them yourself? If so, you, along with numerous other amateurs, have fallen victim to one of the greatest misunderstandings that has ever beset amateur radio.

It is time to set the record straight, and for individual amateurs to examine the facts. Many people are surprised when they realize what the true situation is. Most are completely unaware of what a profound effect the ARRL has on their operations, whether or not they are League members.

Many amateurs view twenty-five dollars sent to ARRL Headquarters as buying a year of QST. However, this is simply not the case. The official League line is that half of the dues go to QST. That turns out not to be the case either. If you compare advertising revenues with production costs, you will find that QST practically pays for itself. Very little of your dues goes into the production of QST. Your dues go to pay for services to the entire amateur radio community, and QST is thrown in to dues-paying members at no extra cost.

QST contains much of interest to VHF/UHF operators. This includes regular columns on FM/Repeaters, UHF operating, moonbounce, exotic propagation, and microwaves. Also consider that QST is the only up to date source of information on public service and emergency communications, most of which is conducted on VHF repeaters. QST brings the VHF operator the latest news on events that affect his own day-to-day operations.

Some amateurs are unhappy with the feature articles in QST. Complaints include such things as not enough construction articles, too many construction articles, not enough emphasis on VHF, too much emphasis on VHF and so on. There are those who feel that the magazine is poorly done, but they cannot say how they would like to see it done differently. One thing is certain. If you quit the League, it will do absolutely nothing to improve QST or any other aspect of the ARRL.

Suppose you do want to see changes made. What do you do? Call Headquarters staff, right? Wrong!!! The system does not work that way. The staff is the hired help we have taken on to carry out the rules made by the Directors. If you want help on some specific matter the staff will be immensely helpful, but if you wish

(Continued on Page 57)

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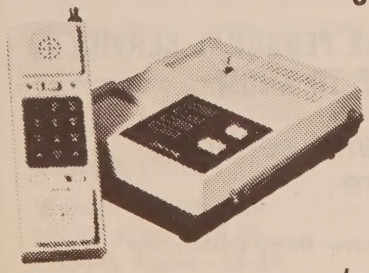

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ARRL AND THE VHF OPERATOR

(Continued from Page 55)

to see changes made, you need to contact the people who make the rules.

Those people are the sixteen Directors. They are unpaid volunteers who are elected by us, the membership. They are answerable to us. The Directors are anxious to hear what you have to say and are responsive to membership input. If you live in Tennessee, you are in the Delta Division and the Director is:

Clyde Hurlbert, W5CH
P.O. Box 541
Biloxi, Mississippi 39533
(601-863-5709)

If you live in the rest of the CVRA-SERA area, you are in the Roanoke Division and the Director is:

Gay Milius, W4UG
1416 Rutland Drive
Virginia Beach, Virginia 23454
(804-481-5095)

Fine, you say, but the Directors are chosen from the general amateur population. What do they know about the special needs of the VHF/UHF operator? The point is valid and the Directors recognize it. For that reason each Director has an advisory committee to represent the specialized interests of amateur radio in his division. Each Director has **two** advisors on the special needs of VHF. These are the VHF and Repeater Advisory Committee member (VRAC), and the VHF/UHF Advisory Committee members (VUAC). The Advisory Committee members are recognized experts in their area. They are appointed by the Director to advise him in these specialties. Since they have the inside track to the Director, these are the people you need to convince if you want to see changes made.

The Advisory Committee members are as follows:

Delta Division:
VRAC
Al Oubre, K5DPG
Star Route A Box 185E
New Iberia, Louisiana 70560

VUAC
Bob Taylor, WB5LBT
10715 Waverland
Baton Rouge, Louisiana 70560

Roanoke Division:
VRAC
Wayne Williams, K4MOB
600 Lakedale Rd.
Colfax, North Carolina 27235

VUAC
Ted Mathewson, W4FJ
1525 Sunset Lane
Richmond, Virginia 23221

Like the Directors, the Advisory Committee members are unpaid volunteers. In fact, most of the work is of the ARRL is done by unpaid volunteers. There is a myth afoot that the League has a large and overpaid staff, and that is where the money goes. The truth is that Headquarters staff is quite small, about 120 employees to attend to the needs of 400,000 amateurs. It is also a fact that the staff employees are paid about half of what they could earn doing the same kind of work in industry. The staff has two functions, to assist the volunteer labor in carrying out the day-to-day work, and to prevent amateur frequencies from being gobbled up by non-amateur users.

Does the ARRL affect your day-to-day operations? Absolutely yes! The League provides many opportunities for you to enhance your enjoyment of VHF amateur radio. Do you check into a VHF Net? Your local net is almost certainly conducted under the auspices of the ARRL National Traffic System. Are you involved in emergency communications? If so, you are no doubt a member

(Concluded on Page 58)

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of your local Amateur Radio Emergency Service organization, another ARRL function. If you are involved with satellite communications, your operations are greatly simplified by the satellite bulletins transmitted many times daily by W1AW. If you interest is VHF DX, then the W1AW propagation bulletin is a vital piece of information. If you are a VHF contester, then the various ARRL sponsored VHF contests are probably the most exciting weekends of the year. In these and many other ways the League affects the day
affects the day-to-day operations of the VHF amateur.

These activities are noteworthy for a number of reasons. First, they significantly influence almost all operators. Second, they are paid for with League money. Third, by their very nature, they are open to all amateurs, members and non-members alike.

While you are pondering whether or not the League does anything for you, consider another point. Have you been to a good hamfest lately? Very few amateurs realize how heavily the League subsidizes hamfests. Consider what the League provides for hamfests, free computer generated mailing labels, free announcements in QST, half price on paid advertising in QST, and expense paid visits by ARRL officials and employees, to name a few. Indeed, the alert hamfest chairman can very well end up with as much League money invested in the hamfest as the sponsoring organization puts into it. Yet, who ever heard of a hamfest that only admitted League members.

All amateurs are profoundly affected by another little noticed and little appreciated ARRL service, the preservation and survival of amateur radio. Without the League there might not be such a thing as amateur radio as we know it. There are many radio services who would like to have our frequencies, and many institutions that would like to abolish amateur radio. This is a never ending problem that requires the attention of the paid professionals at Headquarters staff from day to day. A couple of specifics of interest to VHF operators are the League's action a few years back to save the 220 mHz band, and the current efforts to get cable TV operators out of the 144 and 220 mHz bands. It is in interaction with governments and other powerful institutions that the League spends most of our money. If they ever stop, amateur radio might be squeezed out of existence within a few months. Twenty-five dollars a year is each amateur's share of the cost of the survival of amateur radio.

Consider again the opening question of this article. What has the ARRL done for me? The answer is simple. The influence of the League makes it possible for you to get on the air. That is what you are getting for twenty-five dollars. QST and all membership services are incidental. If you are pondering whether or not to join the League, or whether or not to drop out, ask yourself if the survival of amateur radio is not worth the cost.

END

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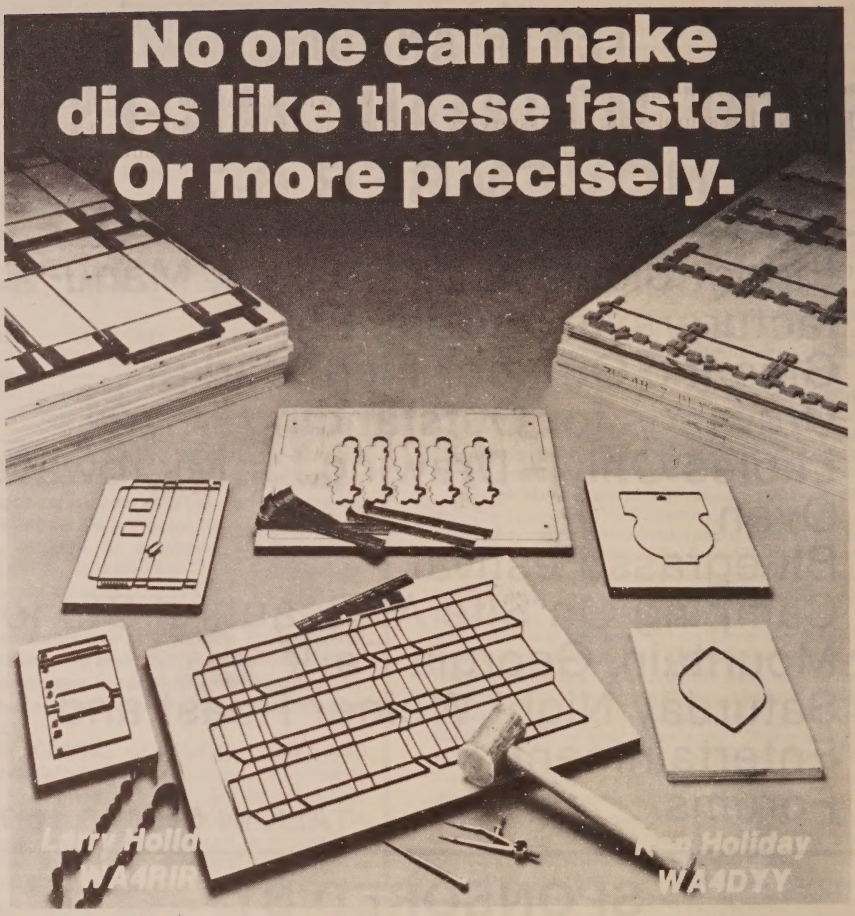

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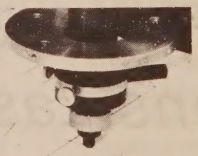

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Editorial Comment

REFLECTING FIVE YEARS WORK

(Continued From Page 1)

Today's JOURNAL resembles our first issue very little. We are about to get it like you know you would want a publication to look.

In my FIRST editorial, I talked of a new era beginning. Taking the job of Editor was a big step in a fast growing organization like CVRA. There had been only two other editors before me. They had laid the groundwork for me, and now I knew it was my turn to make the JOURNAL grow with the organization.

In 1977, the JOURNAL had 1,500 readers. This issue we have almost 4,000 readers. In 1977, paid advertising played a very small part in absorbing part of the JOURNAL's cost of publishing. Today, it represents almost 40% of our revenues.

The careful mix of advertising and news in the Journal has helped prevent a membership fee increase for 2 years now. Costs of everything has skyrocketed over the past 5 years, but membership for CVRA has stayed at $3.00, mainly due to much increased advertising revenues, and other cost cutting ideas put into effect by the staff.

In 1977, CVRA was covering 3 states, North Carolina, South Carolina and Virginia. Today we cover five states with the addition of Tennessee and West Virginia in 1980.

In 1977, we finally passed the 100 mark in Membership repeaters. Last year, we passed th 200 mark. 1982 has been slightly disappointing with about the same membership of repeaters as in 1981.

Five years ago, North Carolina had 97 repeaters on the air or under construction. South Carolina had 31 and Virginia 63 (not counting Northern Virginia, which remains T-MARC territory) Total 191 for the CVRA area.

Today, with our new name, CVRA-Southeastern Repeater Association, we cover five states encompassing over 575 repeaters. They breakdown to 160 in N.C., 150 in Tn., 133 in Va., 71 in S.C. and 56 in W.Va. (figures from May repeater printout)

We will continue to grow over the years, because our organization is about the best thing going as far as coordination and communications are concerned in this part of the country.

I can visualize Northern Georgia and possibly even Eastern Kentucky possibly coming into our folds. Our organization is unique, each individual district or State can operate under their own Director and Vice-Director yet maintain contact through coordination with other Directors. They can also benefit from the 11 years of experience and records drawn by our organization, and of course the REPEATER JOURNAL is a valuable vehicle for prospective new members to learn about what is going on elsewhere in the territory.

We have a strong, good organization and good Directors supervising our 5 Districts. I don't believe anything else will come along that can beat it.

It goes without saying how much I personally appreciate the support we have received from you members in one form or other. I plan to be around a while longer and continue to put out the best JOURNAL I can possibly publish. Your comments and especially your criticism if constructive is always welcome. It is your book. We want to make it what you want to see in a publication.

If you ever wish to contribute news or photos, never hesitate to contact me. News articles from readers are much appreciated and we always try to run everyone we get.

We have purposely kept controversy out of the JOURNAL. I have never felt the JOURNAL was a place to clean out dirty laundry. We do not print "letters to the Editor" for that same reason. We cannot allow the JOURNAL to become a sounding board for some radical person who feels he is right and everyone else is wrong.

My editorials are sometimes a little on the harsh side, but I take full responsibility for them and accept comments pro and con. Usually what I say is what most of you are thinking anyway.

Finally . . . if you will work and help our organization to obtain members for growth, encourage prospective repeater owners to coordinate their frequencies before placing the machine on the air, and keep an eye out for news in your area . . . I'll do my part and publish the JOURNAL for you . . . agreed?

—Wayne C. Williams
Editor

SPECIAL EVENTS STATION

MARION VA.: The amateur radio operators of Smyth County, Va., in celebration of the counties Sesquicentennial, will be on the air Aug. 21, 1982 from 0000Z until 2100Z. Frequencies on 15, 40 and 80 meters up 10 khz from bottom of general phone band and novice cw band as activity dictates. The call to be used is W4KON. Please QSL with large SASE for attractive Certificate and booklet about the county to: KC4IH, KEN STURGILL, P. O. BOX 526, MARION, VA. 24354.

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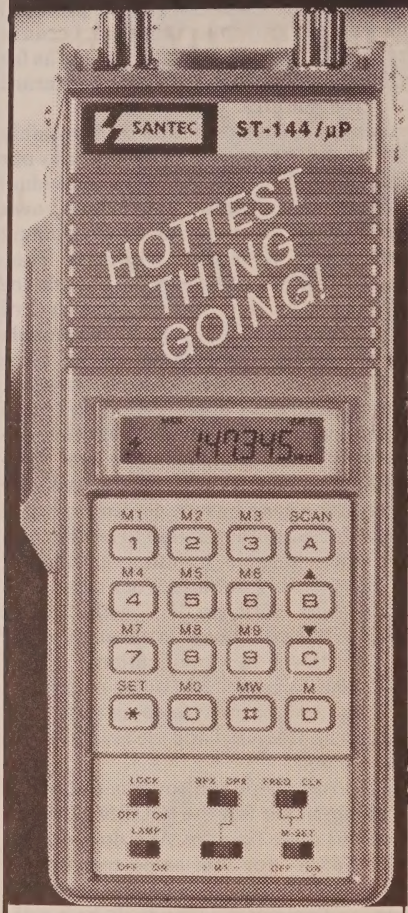

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FIELD DAY for the Forsyth ARC (Winston-Salem, N.C.) was held this year at Bethabara Park, site of the first permanent Moravian settlement in this area in 1753. Club president "Jose" Hostetter, WD4BXN said the group operated phone and CW and obtained over 800 contacts. John McKee and Derek Brown are busy making contacts in the picture. (Photo Ctsy W.S. Sentinel Newspaper)

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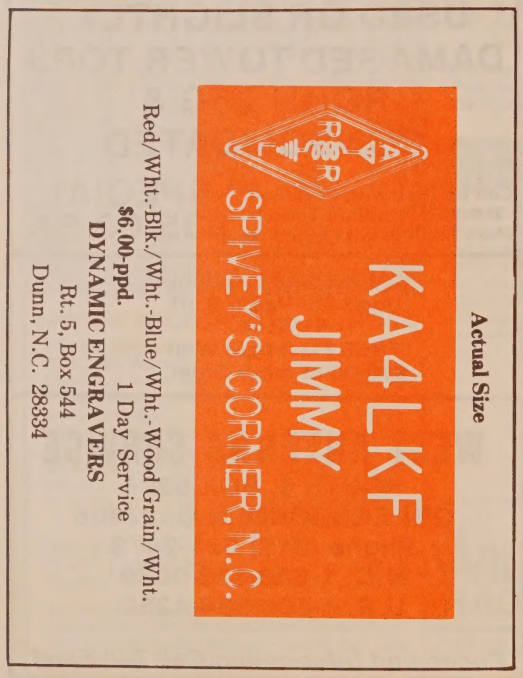

Coming Events

1982 CVRA-SERA CALENDAR

AUGUST
21-22...NC Wing CAP Meet, Tanglewood, W.S., N.C.
22.....East River ARC Hamfest, BLUEFIELD, W.VA.
22.....Ill. State ARRL Conv., ST. CHARLES, ILL.

SEPTEMBER
4.....CVRA-SERA Annual Meeting, SHELBY, N.C.
4-5.....25 Anniv. SARC Hamfest, SHELBY, N.C.
12.....Hamfest, GAITHERSBURG, MD.
18.....WCARS II Swapfest, GREENWOOD, S.C.
24-25.....QCWA Nat'l Conv., NASHVILLE, TN.

OCTOBER
3.....Hamfest, ROCK HILL, S.C.
9.....Asheville Autumn, ASHEVILLE, N.C.
9-10.....Va. State ARRL Conv., VA. BEACH, VA.
16-17.....S. Fla. ARRL Conv., CLEARWATER, FLA.
23-24....Tn. State ARRL Conv., CHATTANOOGA, TN.
23-24.....ARCS Hamfest, SAVANNAH, GA.

NOVEMBER
6-7.....Hamfest, STONE MOUNTAIN, GA.
7.....Hamfest, CONCORD, N.C.
27-28....Greater GBO Hamfest, GREENSBORO, N.C.

1983 CONFIRMED DATES
Mar. 8-9.....Hamfest, CHARLOTTE, N.C.
April 17.....Hamfest, RALEIGH, N.C.
Oct. 7-9.....ARRL Nat'l. Conv., HOUSTON, TX.
Oct. 8-9.....Hamfest, VA. BEACH, VA.

1984 CONFIRMED DATES
Apr. 15.....RARS Hamfest, RALEIGH, N.C.

REPEATER JOURNAL FINAL SANTEC GIVE-A-WAY
Sept. 5.....Hamfest, SHELBY, N.C.

AND THE WINNER IS . . .

(Continued from Page 9)

ed, "I had planned to join for several years, but just never got around to it." "I think this is a very important organization and everyone that works UHF-VHF should support it (CVRA-SERA) fully, because it's the best thing we got."

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The REPEATER JOURNAL staff wishes to thank the Ole Virginia Hams for their outstanding cooperation in promoting the contest during the hamfest on their PA System and allowing time during the drawings for our drawing.

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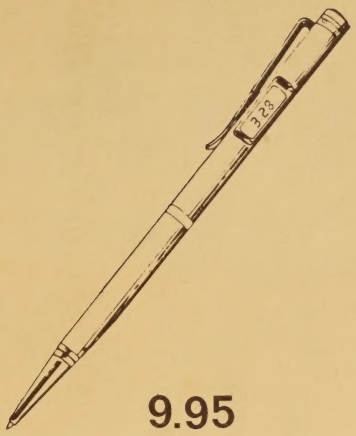

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